







# 2013 – A year of records

In 2013, the Doppelmayr/Garaventa Group completed a total of 117 ropeway projects for 84 customers worldwide. Your trust in our products and capabilities drives our desire to continually achieve top performance and set new milestones. We would like to thank you – our customers and partners – for providing that motivation and for allowing us to help you make dreams come true.

New challenges make it necessary to think ahead, develop and go further. Many projects have enabled us to do precisely that in 2013. We have broken world records and realized world firsts.

Ropeways of superlatives and numerous highlights have shaped the past year. In Sochi we built the longest and fastest tricable gondola lift in the world, in Vietnam the world's longest ropeway that also climbs the greatest vertical height. The first reversible aerial tramway with seat heating was installed in Ischgl, opening up new realms of comfort for ropeways of this kind.

One of the biggest projects in the company's history is currently under construction in South America. In La Paz, three Doppelmayr ropeways are to be integrated into the transport infrastructure. The world's largest urban ropeway network will then become a reality. Ropeways are enjoying ever-increasing popularity as transport solutions. In spite of this trend, winter tourism is set to remain the most important market for the Doppelmayr/ Garaventa Group.

As a result of the projects implemented jointly with you, we have once again consolidated and expanded our leadership of the world ropeway market. We see this as a duty, a challenge and an incentive to continue to develop market-oriented technical innovations, to offer top logistical performance and, quite simply, to build the best ropeways in the world.

Michael Doppelmayr

hudulate UND

Werner Inderbitzin

Hanno Ulmer

# AIS > Doppelmayr/Garaventa worldwide



Doppelmayr/Garaventa installations in 88 countries worldwide!

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# Sochi Special



СТРОЙ

КРЫТИЯМ





# Sochi trusts in the world market leader

Krasnaya Polyana lies 44 km from Sochi. It is here, in the surrounding ski areas of Rosa Khutor, Alpika Service and Laura Psekhako, that Doppelmayr/ Garaventa are building 40 ropeways. Thirty-five of these installations were already in service for the start of the 2014 Winter Olympic Games; another five were not related to the Olympics and are due for completion in 2014. After the Games, the recently expanded resorts are set to become modern centers for winter sports. For the Doppelmayr Group, Sochi 2014 has been one of the biggest projects in the company's history.

The newly installed 3S lifts in the Olympic region break records and are unique worldwide. The Psekhako lift

holds two world records for being the longest and the fastest tricable ropeway. The 3S lift Olympic Village is the first ropeway of its type which can simultaneously carry automobiles as well as passengers.

In addition to the three ropeways using 3S technology, the Doppelmayr Group has built twenty detachable ropeway systems, five fixed-grip chairlifts, four surface lifts and three loading carpets.

In Sochi, the Doppelmayr/Garaventa Group has once again shown itself to be the reliable partner for top quality in modern design, user-friendly solutions and optimum customer support – from the initial idea through to the completed project and beyond.

## Ropeway records at the Winter Olympics

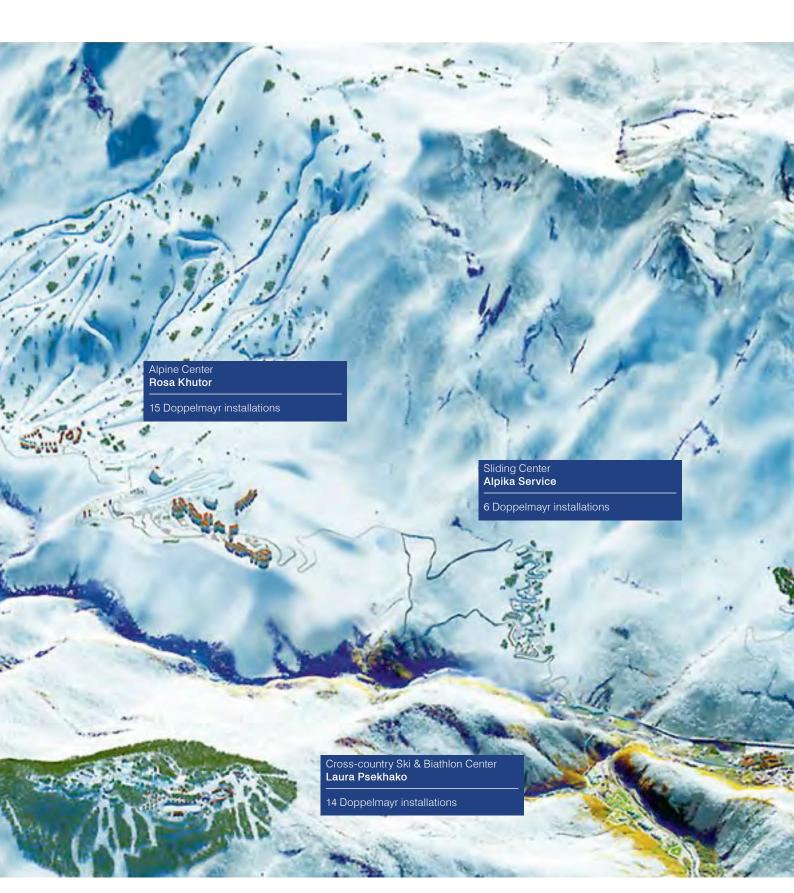




As the world market leader for ropeway engineering, we have a particularly close association with mountain tourism. For this reason and because of our affinity and our passion for winter sports, Doppelmayr is the top partner to the Austrian Olympic Committee (ÖOC). We have also enjoyed a successful partnership with the Fédération Internationale de Ski (FIS) spanning many years. Cooperations such as these create new opportunities and unique synergies which drive forward the winter sports sector worldwide.











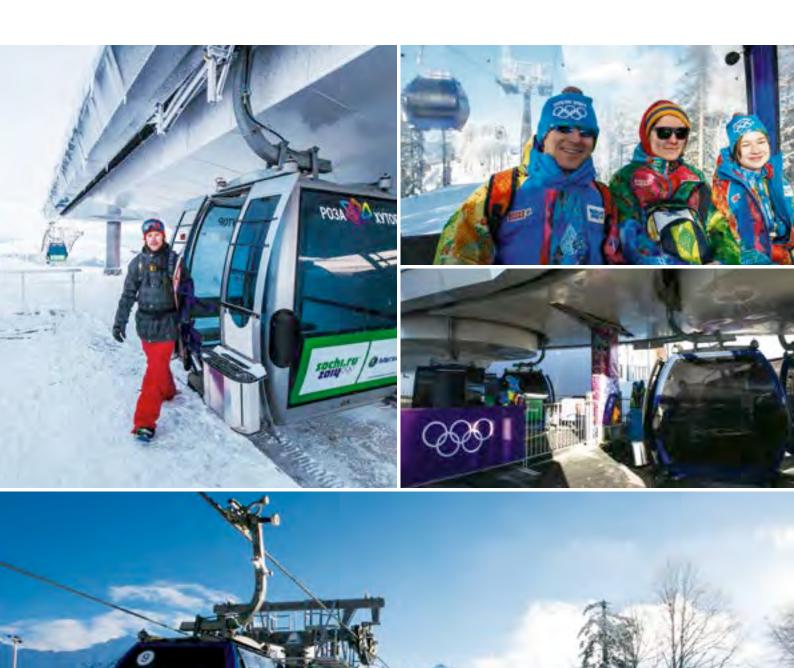
**Rosa Khutor Alpine Center** All the alpine skiing events at the 2014 Winter Olympics were held at the Alpine Center. Whether it was the women's or men's events, slalom, downhill or super-G – all finished at the same stadium where up to 7,500 skiing fans were waiting to cheer their favorite athletes.



Sanki Sliding Center In 2014, Alpika Service was the Olympic center for the luge, bobsleigh and skeleton events. The Sanki Olympic Sliding Center was opened in 2012 and has a capacity of 5,000 spectators. The track takes its name from the Russian word for sled: sanki.



Laura Cross-country Ski & Biathlon Center This was the venue for the biathlon and cross-country skiing events during the Olympic Games. The Cross-country Ski & Biathlon Center encompasses two stadiums for the competitions in the various disciplines and can accommodate 7,500 spectators.











# Jointly successful

As so often the case, a major event gave the Doppelmayr Group the opportunity to put its professionalism and flexibility to the test. Since 2004, an extremely dedicated team has completed 35 ropeways in Sochi. Even if the conditions were not always easy, 40 Doppelmayr fitters and engineers mastered every challenge on site. The result provides impressive proof of the capability of the entire team.

As many as 30 Doppelmayr specialists made a valuable contribution towards the success of the Winter Olympics by working from dawn to dusk throughout the Games. Over a grand total of 4,554 operating hours during the Olympic events, the Doppelmayr installations achieved an availability of 99.98%. The collaboration with the Russian ropeway colleagues was outstanding. Together, they were responsible for the great success of the Sochi project.











# Sochi-Mountain Cluster

#### Cross-country Ski & Biathlon Center | Laura Psekhako

8-MGD	Gazprom Lift A	2006
4-CLD	Gazprom Lift B	2006
1-SL	Gazprom Lift C	2006
4-CLF	Gazprom Lift D	2006
1-SL	Gazprom Lift E1	2006
6-CLD	Gazprom Lift F	2006
8-MGD	Gazprom II-A1	2012
8-MGD	Gazprom II-M	2012
8-MGD	Gazprom II-A2	2013
4-CLD	Gazprom II-F 1	2013
6-CLD-B	Gazprom II-G	2013
4-CLF	Gazprom II-H	2013
1-SL	Gazprom II-I	2013
30-TGD	Psekhako	2013

#### Alpine Center | Rosa Khutor

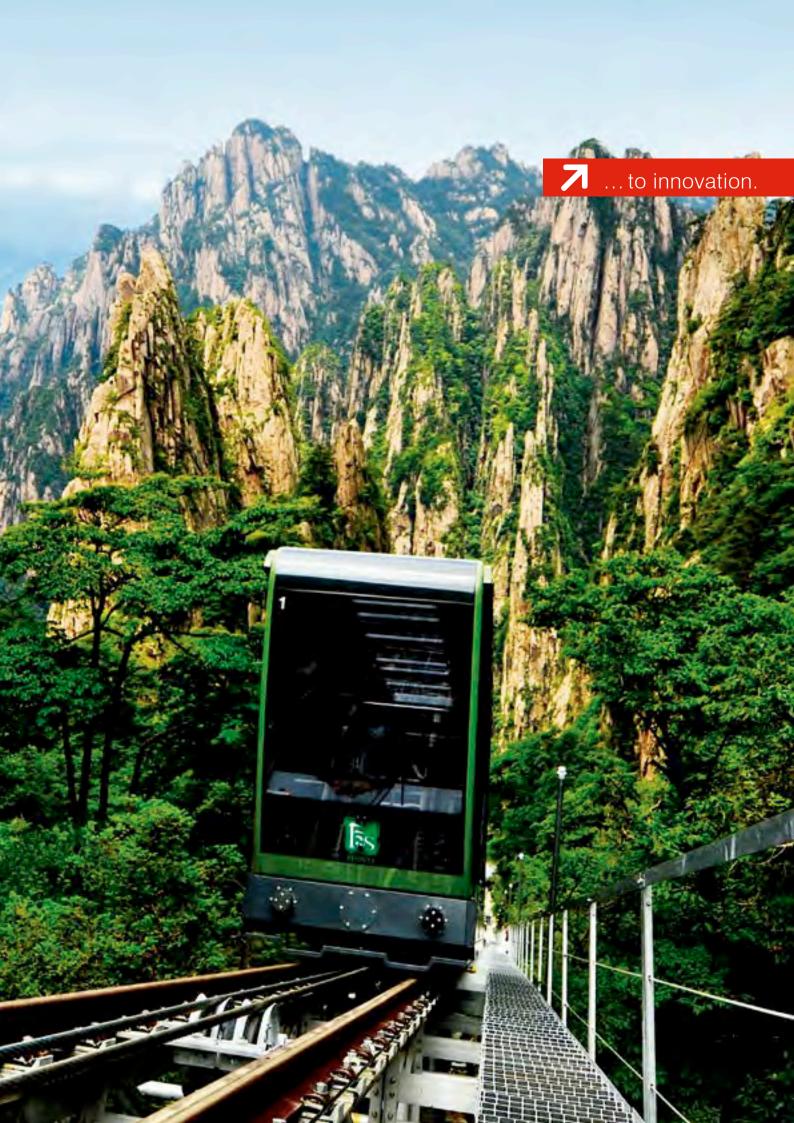
8-MGD	Rosa Khutor Lift A	2010
8-MGD	Rosa Khutor Lift B	2010
8-MGD	Rosa Khutor Lift C	2010
6-CLD	Rosa Khutor Lift D	2010
Chair KID	Rosa Khutor Lift G1	2011
Chair KID	Rosa Khutor Lift G2	2011
Chair KID	Rosa Khutor Lift G3	2011
4-CLF	Rosa Khutor Lift H	2012
4-CLF	Rosa Khutor Lift T	2013
4-CLF	Rosa Khutor Lift E	2013
4-CLF	Rosa Khutor Lift F	2013
8-MGD	Rosa Khutor SBT	2013
8-MGD	Rosa Khutor Lift L	2013
30-TGD	Mzymta – Olympic Village	2013
30-TGD	Olympic Village – Finish Zone	2013

#### Sliding Center | Alpika Service

4/8-CGD	Alpika Aibga-1	2013
4/8-CGD	Alpika Aibga-2	2013
4/8-CGD	Alpika Aibga-3	2013
4/8-CGD	Alpika Aibga-4	2013
4/8-CGD	Alpika Aibga-5	2013
4/8-CGD	Alpika Aibga-6	2013

# 18|19 - Funicular Railways







## 200-FUL Zermatt – Sunnegga



Zermatt Bergbahnen AG Zermatt | Switzerland

An underground funicular runs between Zermatt and the ski resort of Sunnegga. In 2013, this installation was modernized by the Doppelmayr/ Garaventa Group. New rails, cutting-edge ropeway technology and optimally equipped trains meet all the requirements of Zermatt Bergbahnen AG. Passenger comfort was an important consideration for the new investment. Sound damping and LED lighting inside the cabins help to ensure a particularly enjoyable ride experience. The generously proportioned new cabins also offer passengers much more room. As well as optimizing passenger transport, freight handling is now more convenient thanks to doors that open at the front of the train for direct loading and extra-wide side doors. The train is approximately 30 meters in length and consists of three cabins with 4 compartments each. With a speed of 12 m/s, the Zermatt - Sunnegga funicular is the fastest in Switzerland.

Inclined length	1,521 m
Vertical rise	677 m
Speed	12.0 m/s
Capacity	2,550 PPH





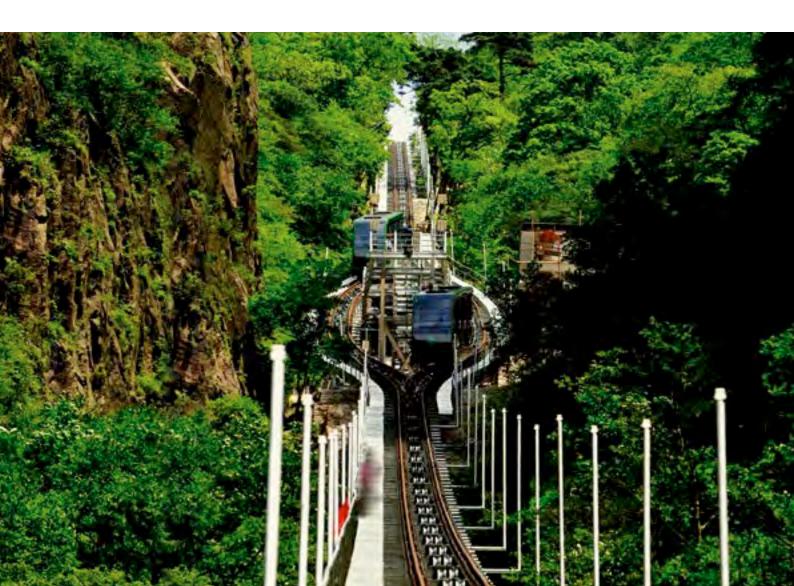
# 60-FUL Huangshan Xihai



Huangshan Tourism Development Co. Ltd Huangshan | China

Inclined length	902 m
Vertical rise	494 m
Speed	8.0 m/s
Capacity	790 PPH





## 40-FUL Falls Incline Railway



The Niagara Parks Commission Niagara Falls, Ontario | Canada

Inclined length	57 m
Vertical rise	34 m
Speed	1.2 m/s
Capacity	1,050 PPH



The Niagara Falls Incline Railway provides its passengers with a magnificent view of one of the world's most awe-inspiring natural spectacles: the mighty Niagara Falls. The Doppelmayr/Garaventa Group has modernized the 47-year-old funicular originally supplied by Von Roll. Although short in length, this installation holds the record for being Northern America's slowest funicular railway. The breathtaking sight of the Falls calls for a low speed to allow guests to enjoy the panorama for as long as possible. In line with the requirements of the Disabilities Act 2005, the new stations and cabins have been designed to allow wheelchair users to make their own way on board. Each of the two trains on the twin-track Incline Railway can carry 40 passengers.





# 35-FUL Ascenseur No 2 Flaine



Domaine skiable de Flaine Flaine | France

Inclined length	152 m
Vertical rise	68 m
Speed	4.0 m/s
Capacity	640 PPH









**7** From the attractive ...

s-LINK



## 150-ATW Piz Val Gronda



Silvrettaseilbahn AG Ischgl | Austria

Inclined length	2,452 m
Vertical rise	517 m
Speed	12.0 m/s
Capacity	1,300 PPH

In Ischgl, a world first went into service for the winter season 2013/2014. The Piz Val Gronda is the world's first reversible aerial tramway to be fitted with heated seats. But that is just one of the numerous exceptional features on this tramway from Doppelmayr/Garaventa.

The 150-passenger cabins are particularly striking. In comparison with other tramways, the cabin design has been literally turned on its head. The elegant looks cannot fail to impress as lschgl's color concept is unmistakable. Even the machinery room has been completed in the typical lschgl colors.

The decision to build an aerial tramway was primarily motivated by a desire to preserve the landscape and protect the natural environment. The line is very space-saving and the station buildings are also styled in a very inconspicuous and open design.





PIZ VAL GRONDA ES





### 130-ATW G-LINK Wagrain



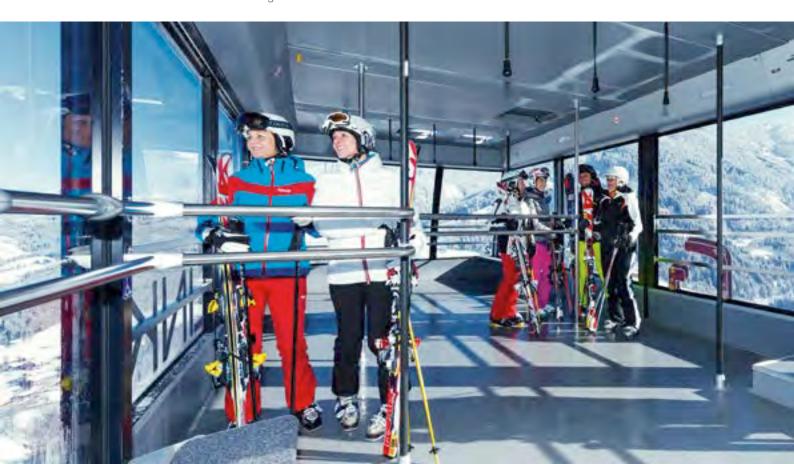
Bergbahnen AG Wagrain Wagrain | Austria

For over 30 years, the operating company Bergbahnen AG Wagrain had a vision of linking up the ski mountains Grafenberg and Grießenkareck. Now they have finally realized that vision with the G-LINK Wagrain which celebrated its grand opening in November 2013.

The modern, twin-tracked reversible aerial tramway takes just five minutes to carry passengers from one mountain to the other. In view of the height above valley floor of up to 230 meters and to ensure passenger safety at all times, the proven recovery system for aerial tramways has been incorporated. This means that even in an emergency situation the cabins can be safely brought to the next station. For this purpose, all function-related parts and equipment are duplicated and independently operable. The Kronos cabins from CWA provide room for 130 passengers, and combine comfort and technology with modern design. G-LINK enhances the attractiveness of the entire region.

Inclined length	2,309 m
Vertical rise	8 m
Speed	12.0 m/s
Capacity	1,268 PPH





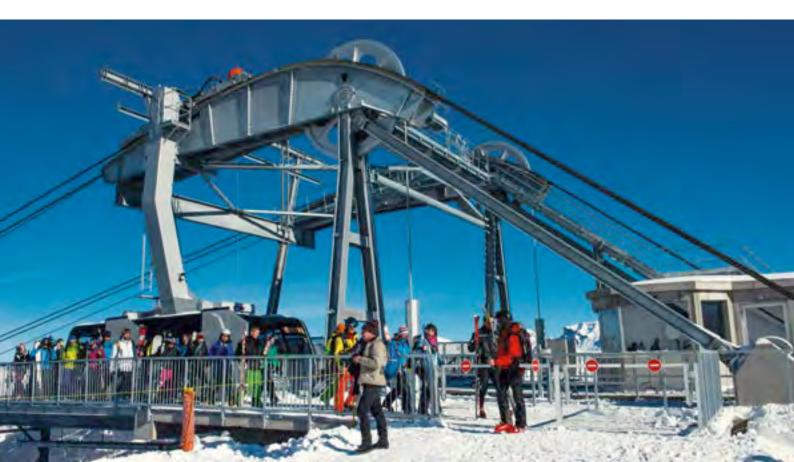
# 125-ATW Grimentz – Sorebois



Remontées Mécaniques de Grimentz SA Grimentz | Switzerland

3,534 m
1,096 m
10.0 m/s
825 PPH







## 35-ATW Saring – Aschbach



Comune di Lagundo Lagundo | Italy

Inclined length	2,464 m
Vertical rise	827 m
Speed	10.0 m/s
Capacity	340 PPH





## 15-ATW Polinka



Politechnika Wrocławska Wrocław | Poland

Inclined length	373 m
Vertical rise	1 m
Speed	5.0 m/s
Capacity	366 PPH







# 40|41 3 S Gondola Lifts

**7** From challenge ...







LAU

#### 30-TGD Olympic Village



OLYMPSTROY Krasnaya Polyana, Sochi | Russia

	Section 1	Section 2
Inclined length	1,736 m	1,460 m
Vertical rise	496 m	194 m
Speed	4.5 m/s	4.5 m/s
Capacity	4,500 PPH 33 automobiles/h	4,500 PPH 33 automobiles/h

During the 2014 Winter Games in Sochi, the 3S lift Olympic Village acted as a feeder to the Olympic village and the Olympic finish zone. This is an aerial ropeway installation with a difference. One of the requirements to be met by the region's infrastructure was that the Olympic venues should be accessible for the athletes and their cars at all times. As the construction of an additional access road would have been complex and costly, this requirement was satisfied with the 3S Olympic Village. Doppelmayr designed the lift not only for passenger transport but also for carrying automobiles. In addition to the blue passenger cabins for up to 25 people, the lift has automobile cabins to take cars.

The Olympic Village lift is the first 3S installation worldwide with two sections and through travel.



#### 30-TGD Psekhako

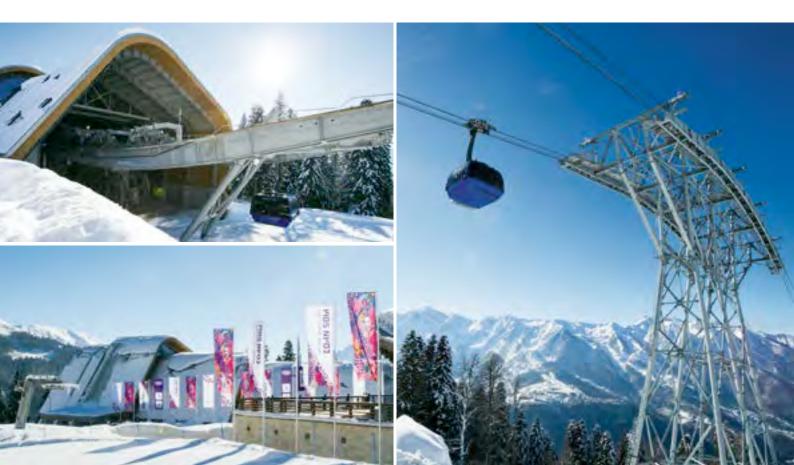


SVOD International LLC Krasnaya Polyana, Sochi | Russia

Inclined length	5,386 m
Vertical rise	1,096 m
Speed	8.5 m/s
Capacity	3,000 PPH



In less than two years, the Doppelmayr Group built a gondola lift of superlatives in the Russian ski resort Laura, the venue for the 2014 Olympic biathlon and cross-country events. The Psekhako has set two world records: It is both the longest and the fastest tricable gondola in the world. With a speed of 8.5 m/s, the lift can carry up to 3,000 passengers an hour in each direction and provides an unrivalled ride experience. There is currently no other tricable gondola worldwide that can beat the length of the Psekhako at 5,386 meters.





## AGI47 Combined Lifts







### 6/8-CGD Geils – Hahnenmoos



Bergbahnen Adelboden AG Adelboden | Switzerland

Inclined length	1,413 m
Vertical rise	243 m
Speed	5.0 m/s
Capacity	2,400 PPH





## 4/8-CGD Elka



Wojewódzki Park Kultury i Wypoczynku im. gen. Jerzego Ziętka S.A. Chorzów | Poland



Inclined length	2,184 m
Vertical rise	12 m
Speed	5.0 m/s
Capacity	861 PPH

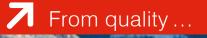






## Detachable Gondola Lifts

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TIROLER ZUGSP GRUBIG II LERMOOS



## 15-MGD Štart – Skalnaté pleso



Tatry mountain resorts, a.s. Tatranská Lomnica | Slovakia



Inclined length	2,019 m
Vertical rise	598 m
Speed	6.0 m/s
Capacity	2,400 PPH







#### 10-MGD Auenfeldjet



Auenfeldjet GmbH & Co KG Schröcken, Lech | Austria

2,072 m
67 m
5.0 m/s
1,490 PPH



A ropeway fulfills a long-held dream: The Auenfeldjet links the ski resorts of Lech Zürs and Warth-Schröcken to form the biggest ski region in Vorarlberg. Since December 2013, this connection has opened up a wide range of snow enjoyment for guests who now have a choice of 47 lifts and 190 kilometers of ski trails.

The bottom station of the Weibermahd combined lift built in 2011 – also supplied by Doppelmayr –

has become the mid station of the new lift and provides guests with a direct connection between the ski resorts of Lech Zürs and Warth-Schröcken. The gondolas of the Auenfeldjet offer ample space for 10 passengers.

Skiers are not the only visitors who benefit from this new connection. It is also a convenient option for ski tourers enjoying the avalanche-safe Auenfeld.



#### 10-MGD Alpen Connecting



Olanger Seilbahnen SpA Olang | Italy

2,206 m
534 m
6.0 m/s
3,100 PPH



The old 6-passenger gondola lift dating back to 1993 has made way for a new 10-passenger installation. The entire line equipment has been replaced along with all the station components; only parts of the original station buildings have been retained. The entire installation has been modernized and optimized to shorten the trip time.

The Alpen Connecting lift is faster than its predecessor, achieving 6.0 m/s rather than the previous speed of 5.0 m/s. In addition, the intermediate station has been dispensed with to allow a constant travel speed over the entire line. That means it now takes passengers less time to reach their destination. They also enjoy a top ride experience in the 10-passenger gondolas, with comfortable leather seats and free Wi-Fi connection ensuring maximum comfort. The gondola windows are significantly larger than on the old cabins and create the impression of being immersed in the natural surroundings.





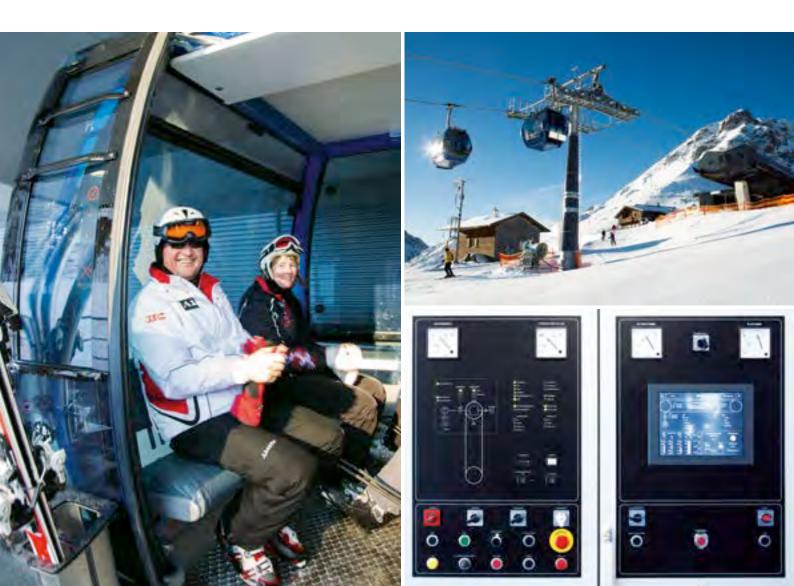
## 10-MGD Grubig II



Berglifte Giselher Langes GmbH & Co KG Lermoos | Austria

Inclined length	1,916 m
Vertical rise	694 m
Speed	5.5 m/s
Capacity	2,413 PPH





## 10-MGD Riegleralm



Murtal Seilbahnen Betriebs GmbH St. Georgen ob Murau | Austria



Inclined length	2,000 m
Vertical rise	387 m
Speed	6.0 m/s
Capacity	3,000 PPH





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#### 10-MGD Welschnofen - Frommer Alm



Kabinenbahn Welschnofen SpA Nova Levante | Italy

Inclined length	3,603 m
Vertical rise	565 m
Speed	6.0 m/s
Capacity	1,800 PPH



The detachable gondola lift Welschnofen replaces the old chairlift Laurin 1 and acts as a feeder from the center of Welschnofen village. The alignment is particularly challenging with an inclined length of 3.6 km and a vertical rise of 565 meters.

Each gondola can carry ten passengers. The high interior allows passengers to enter with skis or snowboards, which makes for especially convenient loading and unloading. During the trip, the skis are deposited in special slots in the gondola floor. To accommodate this feature, the gondolas are larger than previous models – an absolute novelty on the Italian market. The carriers are parked below the loading area in the top station. For this purpose, an inclined conveyor was installed which transports the carriers from the upper to the lower level and vice versa.



#### 10-MGD Bana Big Ropeway



Bà Nà Service Cable Car JSC Bà Nà Hills, Da Nang | Vietnam

Inclined length	5,772 m
Vertical rise	1,369 m
Speed	6.0 m/s
Capacity	1,500 PPH



This successful Doppelmayr project has brought two entries in the Guinness World Records for Vietnam. In April 2013, the Bana Big Ropeway was officially opened in the Bà Nà Hills Mountain Resort and made its mark in history at the same time. As well as being the world's longest ropeway, it climbs a greater vertical height than any other installation of its kind. Between boarding and arrival, the ropeway covers a length of 5,772 meters and a difference in altitude of 1,369 meters. The new ropeway has created a tourist attraction for the Mountain Resort, which is not far from the city of Da Nang. In just 17 minutes, passengers are carried to the numerous hotels located at top of the mountain. Each gondola offers ample room for ten passengers. Level access makes boarding particularly convenient. The Bana Big Ropeway is now the third installation that Doppelmayr has built in this region.











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## 10-MGD Tovière





Inclined length	1,783 m
Vertical rise	600 m
Speed	6.0 m/s
Capacity	3,000 PPH





#### 8-MGD Ossi-Reichert-Bahn 1+2



Bergbahnen Ofterschwang-Gunzesried GmbH & Co KG Ofterschwang | Germany

	Section 1	Section 2
Inclined length	1,294 m	924 m
Vertical rise	285 m	134 m
Speed	6.0 m/s	6.0 m/s
Capacity	2,000 PPH	2,000 PPH





### 8-MGD Blatten - Chiematte



Belalp Bahnen AG Naters | Switzerland



Inclined length	1,892 m
Vertical rise	721 m
Speed	6.0 m/s
Capacity	2,000 PPH



## 8-MGD Tianzhushan



Anhui Tianzhushan Tourism Development Co. Ltd Tianzhushan | China



1,341 m
329 m
6.0 m/s
1,600 PPH



## 8-MGD Siviez – Plan du Fou



Télé Nendaz SA Haute-Nendaz | Switzerland



Inclined length	1,870 m
Vertical rise	708 m
Speed	6.0 m/s
Capacity	2,400 PPH





## 8-MGD Le Châble – Mayens Bruson



Téléverbier SA Verbier | Switzerland





Inclined length	2,592 m
Vertical rise	823 m
Speed	6.0 m/s
Capacity	1,600 PPH



# 76|77 **7** Detachable Chairlifts

From the familiar ...

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## 8-CLD-B Kristallexpress



Bergbahnen Hochzillertal GmbH & Co KG Kaltenbach | Austria

Inclined length	1,410	m
Vertical rise	396	m
Speed	5.0	m/s
Capacity	4,000	PPH





#### 8-CLD-B Strassalmbahn



Alpendorf Bergbahnen AG St. Johann im Pongau | Austria

Inclined length	797 m
Vertical rise	243 m
Speed	5.0 m/s
Capacity	3,200 PPH











#### 8-CLD-B Glocknerbahn



Schmittenhöhebahn AG Zell am See | Austria



Inclined length	945 m
Vertical rise	191 m
Speed	5.0 m/s
Capacity	3,700 PPH





The Schmittenhöhebahn operating company got off to a particularly attractive start to the new winter season. An 8-seater chairlift now replaces the outmoded quad chairlift. Child safety was a major consideration for this installation. Seven children and one accompanying adult – that was the motto. The special chair model CS10 makes it all possible. Automatic restraining bar locking and individual footrests enable all passengers – both adults and children – to be carried safely. A height-adjustable loading carpet in the loading area helps children to take up their correct seated positions on the chair. The numerous ski schools are particularly pleased with the new installation. Integrated seat heating ensures high ride comfort and bubbles provide protection against wind and snow.



## 🕻 Glocknerbahn 👁



#### 8-CLD-B Rossstelle



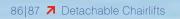
Bergbahnen Mellau GmbH & Co KG Mellau | Austria

Inclined length	638 m
Vertical rise	173 m
Speed	5.0 m/s
Capacity	3,400 PPH















## 6-CLD-B Weiherkopfbahn



Hörnerbahn GmbH & Co KG Bolsterlang | Germany



Inclined length	1,056 m
Vertical rise	356 m
Speed	5.0 m/s
Capacity	2,500 PPH







## 6-CLD-B Moseltret-X-Press



Schilift-Zentrum-Gerlos GmbH Gerlos | Austria

Inclined length	650 m
Vertical rise	173 m
Speed	5.0 m/s
Capacity	2,420 PPH





#### 6-CLD-B Tanzbödenbahn



Arlberger Bergbahnen AG St. Anton am Arlberg | Austria



Inclined length	694 m
Vertical rise	204 m
Speed	5.0 m/s
Capacity	2,000 PPH



The operating company Arlberger Bergbahnen has invested in a new lift that is specially designed with the needs of children in mind. Here, they placed their trust in the successful CS10 chair model from Doppelmayr. In place of the Tanzböden surface lift on the Galzig, winter season 2013/2014 saw the start-up of a 6-seater chairlift which is configured for child-friendly transport. Features include restraining bars with automatic locking, lock monitoring and footrests. This means that up to five children with a body height of more than 90 cm can be carried on one chair with just one accompanying adult. For greater comfort, the 30 chairs on the Tanzbödenbahn are equipped with bubbles. The 700-meterlong chairlift takes skiers and snowboarders up to an altitude of 2,177 meters to enjoy the ski region of St. Anton am Arlberg.







## 6-CLD-B Gipfel 6er

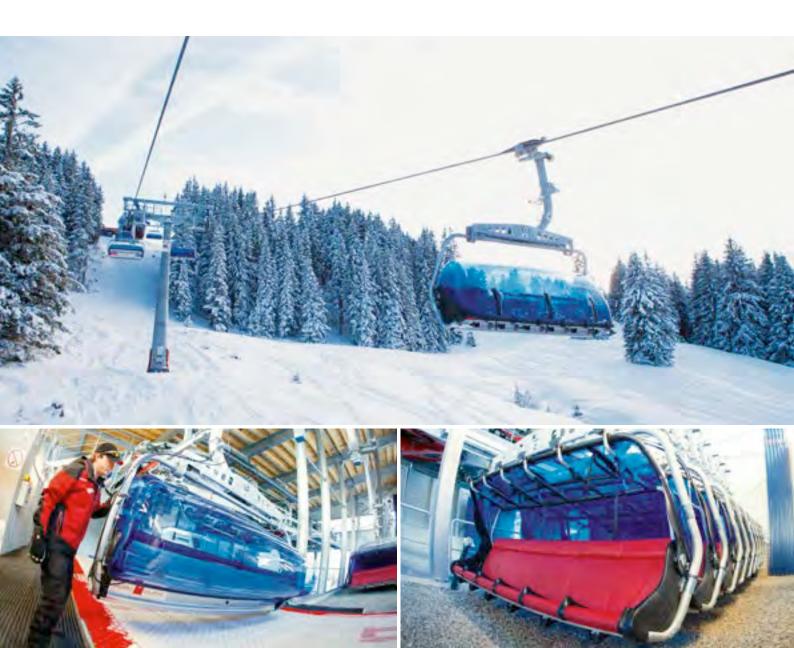


Bergbahnen Ofterschwang-Gunzesried GmbH & Co KG Ofterschwang | Germany

Inclined length	1,008 m
Vertical rise	238 m
Speed	5.0 m/s
Capacity	2,400 PPH









## 6-CLD-B Obergassalmbahn



Alpendorf Bergbahnen AG St. Johann im Pongau | Austria

Inclined length	927 m
Vertical rise	210 m
Speed	5.0 m/s
Capacity	2,800 PPH







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#### 6-CLD-B Mizunbahn



Bergbahnen Hochzillertal GmbH & Co KG Kaltenbach | Austria



Inclined length	1,703 m
Vertical rise	405 m
Speed	5.0 m/s
Capacity	2,400 PPH





## 6-CLD-B Ebenwald



Mayrhofner Bergbahnen AG Mayrhofen | Austria

Inclined length	1,244 m
Vertical rise	449 m
Speed	5.0 m/s
Capacity	2,400 PPH









## 6-CLD-B Lämmerbichl



Zillertaler Gletscherbahn GmbH & Co KG Lanersbach | Austria

Inclined length	1,564 m
Vertical rise	442 m
Speed	5.0 m/s
Capacity	2,800 PPH





### 6-CLD-B Heimberg – Mottahütte



Lenzerheide Bergbahnen AG Lenzerheide | Switzerland

## 6-CLD-B Mottahütte – Urdenfürggli



Lenzerheide Bergbahnen AG Lenzerheide | Switzerland



Inclined length	920 m
Vertical rise	287 m
Speed	5.0 m/s
Capacity	2,200 PPH

Inclined length	912 m
Vertical rise	309 m
Speed	5.0 m/s
Capacity	2,200 PPH







## 6-CLD-B Panüöl – Maschgenkamm



Bergbahnen Flumserberg AG Flumserberg | Switzerland

Inclined length	929 m	
Vertical rise	213 m	
Speed	5.0 m/s	
Capacity	3,000 PPH	





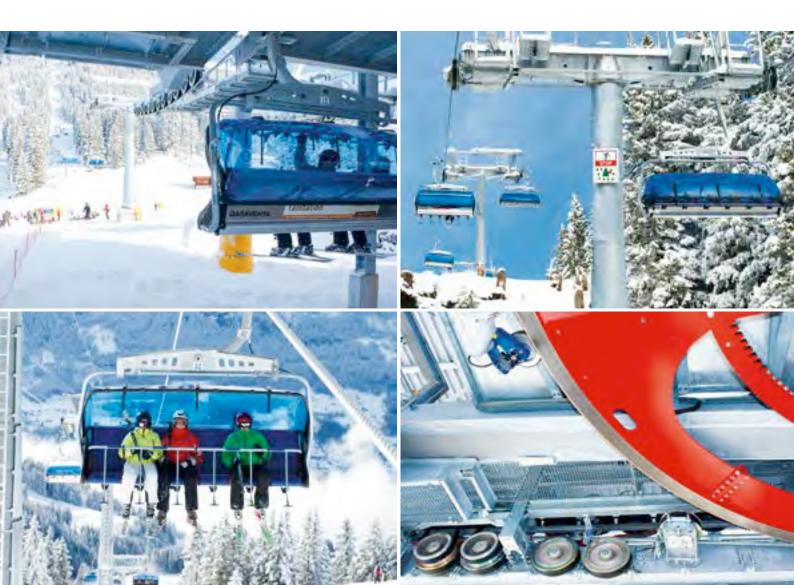
#### 6-CLD-B Bidmi – Käserstatt



Bergbahnen Meiringen-Hasliberg AG Hasliberg Wasserwendi | Switzerland

Inclined length	1,186 m
Vertical rise	448 m
Speed	5.0 m/s
Capacity	2,000 PPH







## 6-CLD Peyron





Inclined length	1,521 m
Vertical rise	436 m
Speed	5.25 m/s
Capacity	2,400 PPH



## 6-CLD Kappe



Skiliftbetriebe Brinkmann Winterberg | Germany

Inclined length	562 m
Vertical rise	180 m
Speed	4.5 m/s
Capacity	2,700 PPH





## 6-CLD Ritzhagenlift



Gebrüder Rummel GmbH & Co KG Willingen | Germany

Inclined length	631 m
Vertical rise	112 m
Speed	5.0 m/s
Capacity	3,000 PPH







#### 6-CLD Cordela – Montesel



Trento Funivie SpA Trento | Italy



Inclined length	943 m
Vertical rise	278 m
Speed	5.0 m/s
Capacity	2,400 PPH



ENTO NIVIE

### 6-CLD La Toussuire





Inclined length	1,218 m
Vertical rise	266 m
Speed	5.0 m/s
Capacity	2,700 PPH





## 6-CLD Harmony 6 Express



Whistler Blackcomb Whistler, BC | Canada



Inclined length	1,707 m
Vertical rise	525 m
Speed	5.08 m/s
Capacity	3,600 PPH





#### 6-CLD Mountain Top Express



Vail Resort Vail, CO | USA





Inclined length	1,255 m
Vertical rise	337 m
Speed	5.0 m/s
Capacity	3,600 PPH





### 4-CLD Panorama Express



Mont-Sainte-Anne Beaupré, QC | Canada

Inclined length	1,776 m
Vertical rise	534 m
Speed	5.1 m/s
Capacity	1,800 PPH





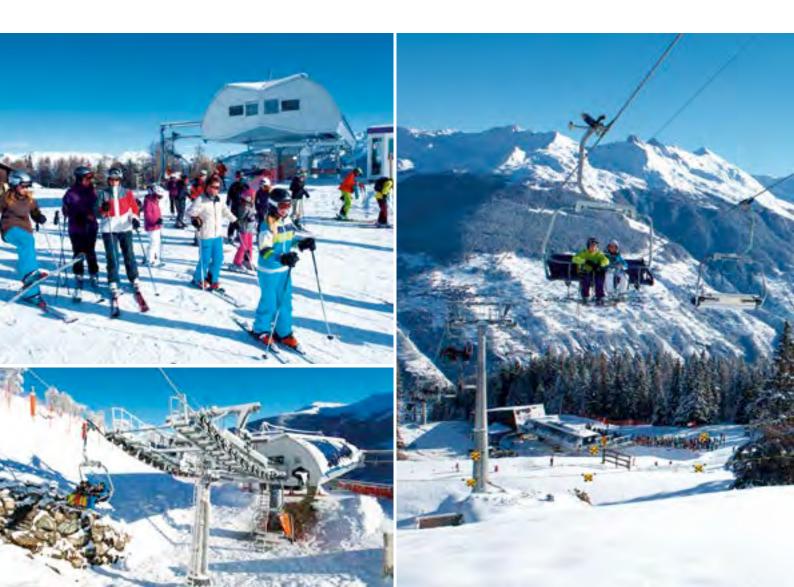
#### 4-CLD Les Masses – Les Collons



Télé-Thyon SA Thyon | Switzerland

Inclined length	1,190 m
Vertical rise	434 m
Speed	5.0 m/s
Capacity	2,000 PPH





#### 4-CLD Grand Plan



Commune de Ste Foy Tarentaise Ste Foy Tarentaise | France

Inclined length	790 m
Vertical rise	238 m
Speed	5.0 m/s
Capacity	2,000 PPH







#### 4-CLD Gad 2



Snowbird Ski and Summer Resort Snowbird, UT | USA



Inclined length	1,141 m
Vertical rise	379 m
Speed	5.0 m/s
Capacity	1,784 PPH





#### 4-CLD Treasure Stoke



Wolf Creek Ski Area Pagosa Springs, CO | USA





Inclined length	1,303 m
Vertical rise	329 m
Speed	5.0 m/s
Capacity	1,800 PPH



### 4-CLD Fjällgardsliften



Ramundbergets Alpina AB Ramundberget | Sweden

### 4-CLD Glacier Bowl Express



Alyeska Resort Girdwood, AK | USA





Inclined length	1,251 m
Vertical rise	242 m
Speed	5.0 m/s
Capacity	2,340 PPH

Inclined length	1,232 m
Vertical rise	427 m
Speed	5.0 m/s
Capacity	2,400 PPH





## 4-CLD Jupiter Express



Stevens Pass Skykomish, WA | USA



Inclined length	1,134 m
Vertical rise	410 m
Speed	5.0 m/s
Capacity	2,210 PPH



# Fixed-grip Chairlifts

From classic ...



#### 4-CLF L'Au – Pointe de l'Au



Télémorgins S.A. Val d'Illiez | Switzerland

Inclined length	965 m
Vertical rise	367 m
Speed	2.6 m/s
Capacity	1,874 PPH













#### 4-CLF Wiesernockbahn



Bad Kleinkirchheimer Bergbahnen Holding AG Bad Kleinkirchheim | Austria

701 m
205 m
2.6 m/s
2,019 PPH





## 4-CLF Osthang



Postwiesenliftgesellschaft GmbH & Co KG Winterberg – Neuastenberg | Germany



Inclined length	574 m
Vertical rise	123 m
Speed	2.4 m/s
Capacity	2,412 PPH





#### 4-CLF Shahdag Lift 6



Ministry of Culture & Tourism of Azerbaijan Republic Shahdag Mountain Resort | Azerbaijan



315 m
36 m
1.8 m/s
1,779 PPH



#### 4-CLF Quad Chair



Kinosoo Ridge Ski Resort Cold Lake, AB | Canada

67 m
07 111
2.3 m/s
1,600 PPH





## 4-CLF Visions Xpress



Greek Peak Mountain Resort Cortland, NY | USA

Inclined length	982 m
Vertical rise	224 m
Speed	2.3 m/s
Capacity	1,808 PPH





#### 4-CLF Chairlift #3



Mt. Brighton (Vail Resorts) Brighton, MI | USA



Inclined length	222 m
Vertical rise	45 m
Speed	2.0 m/s
Capacity	2,400 PPH



#### 4-CLF Chairlift #4



Mt. Brighton (Vail Resorts) Brighton, MI | USA

#### 3-CLF Crow's Peak Lift



Sugar Bowl Resort Norden, CA | USA





Inclined length	224 m
Vertical rise	46 m
Speed	2.0 m/s
Capacity	2,400 PPH

Inclined length	836 m
Vertical rise	276 m
Speed	2.5 m/s
Capacity	1,800 PPH





## Burface Lifts

**From being pulled** ...

... to being moved.

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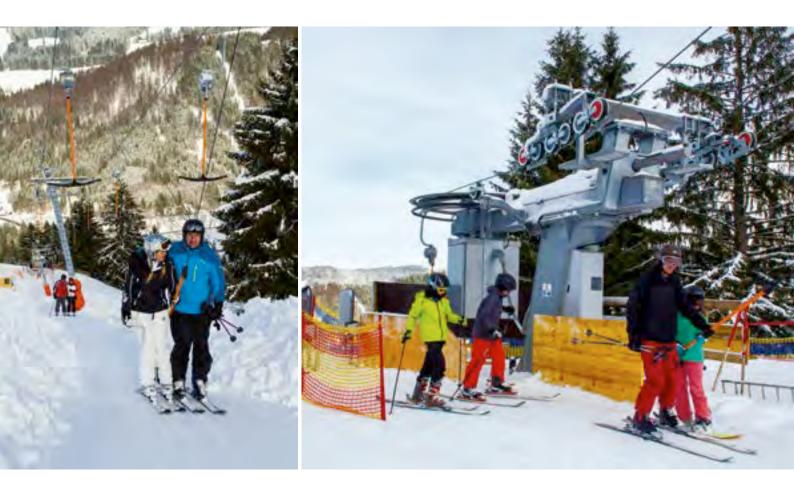
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#### 2-SL Gratlift



Hündle-Erlebnisbahn GmbH & Co KG Oberstaufen | Germany



Inclined length	442 m
Vertical rise	112 m
Speed	2.5 m/s
Capacity	1,200 PPH



## 2-SL Storm King T-Bar



Copper Mountain Copper Mountain, CO | USA



Inclined length	597 m
Vertical rise	141 m
Speed	3.0 m/s
Capacity	977 PPH



#### 2-SL Plan – Marmet



Bugnenets-Savagnières SA St. Imier | Switzerland

Inclined length	401 m
Vertical rise	58 m
Speed	2.5 m/s
Capacity	1,100 PPH





### 2-SL Summit Crossing



Sugar Bowl Resort Norden, CA | USA

#### 1/2-SL Dias



Etad Etaireia Akiniton Dimosiou Anonymi., Public P Parnassos | Greece

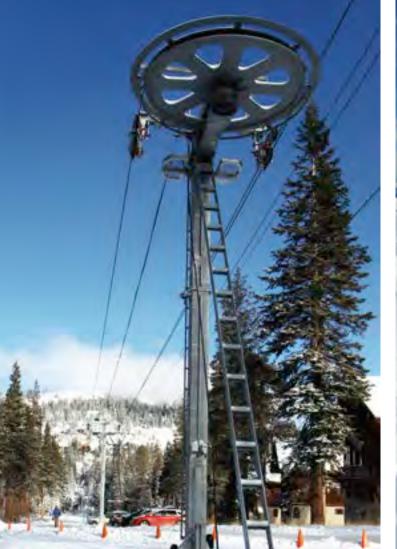
Inclined length	342 m
Vertical rise	22 m
Speed	2.0 m/s
Capacity	344 PPH



392 m	
90 m	
3.0 m/s	
1,182 PPH	
	90 m 3.0 m/s



#### XIONOΔΡΟΜΙΚΟ KENTPO ΠΑΡΝΑΣΣΟΥ PARNASSOS SKI CENTRE





## 2-SL Birkischlepper



Bergbahnen Mitterbach GmbH Mitterbach | Austria



Inclined length	673 m
Vertical rise	170 m
Speed	3.1 m/s
Capacity	1,046 PPH



### 2-SL Modrá sjezdovka



K3 SPORT, s.r.o. Kouty nad Desnou | Czech Republic

### 2-SL Nad Nádražím



ARC-H Hradec Králové s.r.o. Železná Ruda | Czech Republic





8 m
4 m
1 m/s
7 PPH

Inclined length	609 m
Vertical rise	109 m
Speed	3.1 m/s
Capacity	1,191 PPH





#### 1-SL Rimmlermoos I + II



Bayer. Trainspitzbahn Bergbahn AG Garmisch-Partenkirchen | Germany

	Installation I	Installation II
Inclined length	224 m	295 m
Vertical rise	50 m	37 m
Speed	2.0 m/s	2.0 m/s
Capacity	700 PPH	680 PPH







## 1-SL Lämmerbichl



Zillertaler Gletscherbahn GmbH & Co KG Lanersbach | Austria

Inclined length	288 m
Vertical rise	47 m
Speed	2.5 m/s
Capacity	718 PPH





## 1-SL Hörni-Tellerlift



Hörnerbahn GmbH & Co KG Bolsterlang | Germany

## 1-SL Sierra West Platter



Copper Mountain Copper Mountain, CO | USA

Inclined length	273 m
Vertical rise	47 m
Speed	2.0 m/s
Capacity	719 PPH

255 m
80 m
1.5 m/s
534 PPH







## 1-SL Plattis



Bergbahnen Flumserberg AG Flumserberg | Switzerland

Inclined length	392 m
Vertical rise	52 m
Speed	3.0 m/s
Capacity	900 PPH





## 1-SL Schatzerlift



Schatzerlift GmbH Kirchberg in Tirol | Austria

Inclined length	313 m
Vertical rise	54 m
Speed	2.5 m/s
Capacity	646 PPH





## 1-SL Marmottons



SE2MC Lanslevillard | France

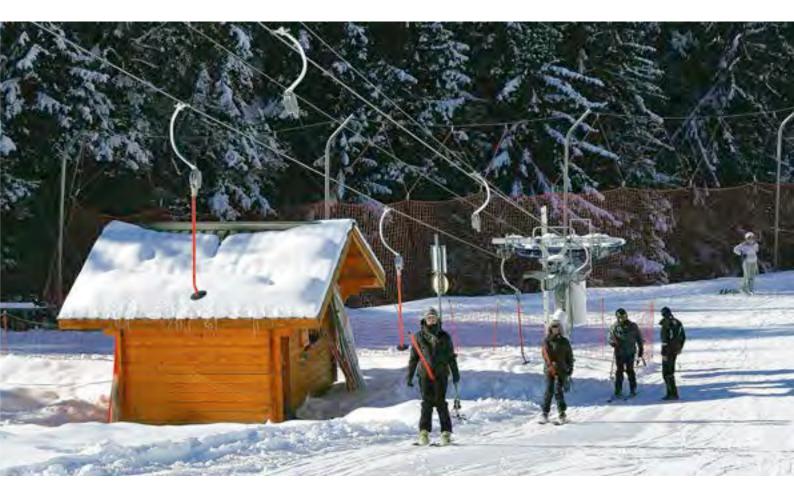


Inclined length	273 m
Vertical rise	26 m
Speed	2.0 m/s
Capacity	602 PPH



## 1-SL Terres Grasses





Inclined length	149	m
Vertical rise	17	m
Speed	2.0	m/s
Capacity	629	PPH



## 1-SL Luža



RTC Krvavec, d.d Krvavec | Slowenia

## 1-SL Pessons II



S.A.E.T.D.E. Grau Roig | Andorra

Inclined length	291 m
Vertical rise	51 m
Speed	2.5 m/s
Capacity	634 PPH

Inclined length	173 m
Vertical rise	27 m
Speed	2.0 m/s
Capacity	700 PPH









## 1-SL Kinderlift



Hündle-Erlebnisbahn GmbH & Co KG Oberstaufen | Germany

## 1-SL Shahdag Lift 7



Ministry of Culture & Tourism of Azerbaijan Republic Shahdag Mountain Resort | Azerbaijan

Inclined length	186 m
Vertical rise	32 m
Speed	2.0 m/s
Capacity	700 PPH

Inclined length	174 m
Vertical rise	23 m
Speed	2.0 m/s
Capacity	895 PPH









## 154|155 **A** Material Transport Systems

**7** From special requirements ...



## FUL-PM Tierfehd – Maschinenkaverne PSW Limmern



AXPO Hydroenergie Linthal | Switzerland

Inclined length	3,777 m
Vertical rise	881 m
Speed	6.0 m/s
Capacity normal transport	40 t / 30 p
Capacity heavy-duty transport	120 t
Capacity transport of transformers	215 t









## ATW-M Witron



FAS Förderanlagen Systeme GmbH Parkstein | Germany

Inclined length	136 m	
Vertical rise	15 m	
Speed	3.0 m/s	
Capacity	40 trips/h	
Payload	1 t	





## **RPC** Tüfentobel Verlängerung Phase 2.1



Entsorgung St. Gallen St. Gallen | Switzerland



Mass flow	500 t/h
Conveying length	965 m
Vertical rise	65 m
Belt speed	1.6 m/s
Motor rating	160 kW

Since 2005, a RopeCon<sup>®</sup> system has been used to transport garbage delivered to the waste tip at Tüfentobel. Here, the valley between Abtwil and Engelburg is to be filled in with excavated material and finally relandscaped. In the first construction phase, the transportation length was roughly 350 m; as the backfilling progresses, so the conveyor belt is extended. In March 2013, a new tower was erected on the line and the discharge point again relocated. The RopeCon<sup>®</sup> now discharges at 965 m. In view of the very poor terrain, it was not possible to anchor the new tower immedi-



ately below the RopeCon<sup>®</sup>. The tower was therefore positioned slightly to one side and angled towards the line. This tower is 53 m in length and enables the conveyor belt to run at a height of 37.5 m above ground at this point.

As well as significantly reducing environmental impact, the RopeCon<sup>®</sup> means less disturbance for residents in the local area. Thanks to this installation, the frequency of truck transports causing dust and noise has been cut to a minimum.





## MRK-M500 Benzin-Monorack Twann – Ligerz



Bodenverbesserungsgenossenschaft Twann – Ligerz Twann | Switzerland



	Section 1	Section 2	Section 3
Inclined length	128 m	107 m	206 m
Vertical rise	43 m	40 m	35 m
Speed	0.7 m/s	0.7 m/s	0.7 m/s
Capacity	1 p and 250 kg	1 p and 250 kg	1 p and 250 kg

## MRK-M500 Benzin-Monorack Kraftwerk Farettes



Romande Energie SA Aigle | Switzerland

Inclined length	486 m
Vertical rise	208 m
Speed	0.7 m/s
Capacity	4 p / 320 kg





## MRK-M500 Benzin-Monorack



Private installation Tessin | Switzerland

Inclined length	228 m
Vertical rise	115 m
Speed	0.7 m/s
Capacity	3 p / 240 kg



## MRK-M250 Elektro-Monorack Casa Vanessa



Norbert Julen Zermatt | Switzerland



Inclined length	36 m
Vertical rise	16 m
Speed	0.6 m/s
Capacity	2 p / 160 kg

## MRK-M250 Elektro-Monorack





Vertical rise	45 m
Speed	0.6 m/s
Capacity	2 p / 240 kg



From cutting-edge technology ...

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# Estación Petare II

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ET E

Metro

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## CLS Cabletren Bolivariano



C.A. Metro de Caracas Petare, Caracas | Venezuela

850 m
46.8 km/h
190 s
3,000 PPHPD*
3
2
232 p/train



\* PPHPD: passengers per hour per direction

Caracas has once again placed its trust in the know-how of Doppelmayr Cable Car and expanded its urban transit network through the addition of a CABLE Liner. The Cabletren Bolivariano is integrated into the network belonging to the metropolitan transport company Metro de Caracas – and operates between the hours of 5:30 am and 10:00 pm. The first section is now in service; the full rail line is scheduled for completion in 2015. Since August 2013, the rail section between the stations Petare and 5 de Julio has been served by two fully automated trains, each consisting of four cars. The route taken by the CABLE Liner opens up a whole new plane for transport at a height above ground ranging from eight to 15 meters. The slightly inclined steel guideway runs alongside the busy six-lane Petare highway and is supported by 68 concrete towers located between sidewalk and highway. This new mode of transport plays an important role for the metropolitan area of Caracas and represents a significant improvement for the entire population.



# 172|173 **¤ I**nput

**7** From leisure amenites ...



### Pista del Mar



Cetursa Sierra Nevada, S.A. Granada | Spain



Spain's biggest ski area, the Sierra Nevada, commissioned Input to develop an idea for a new theme for a family ski trail. The opening of the ocean trail, "Pista del Mar", was celebrated on schedule at the start of the season in December 2013.

This entirely novel concept is based on international studies looking at how children can learn to ski safely through play. Both the trail and the chairlift were fitted out with marine and maritime features to create a special ocean feeling. These symbolize the region's proximity to Spain's southern coast. Every downhill run becomes an experience – above all children and beginners ski slalom between the tentacles of a giant octopus, past palm trees and amusing ocean creatures down to the 7.5-meter-high lighthouse which also lights the way in poor weather.



## Almzeit Sölden



Ötztal Tourismus Sölden | Austria



Sölden is investing in summer on the mountain. Input developed an experiential concept for this purpose which combines recreation, enjoyment, activity and play. The "Almzeit" is a themed hiking route designed to create a special feel for the variety and character of more than ten alpine huts and pastures in Sölden's mountains.

At the mid station of the Gaislachkoglbahn, three-meter-high wooden letters spelling the word "Almzeit" have been installed, making the name visible from a distance. A slide, swings, climbing facilities and loungers are integrated into the individual letters. The motor skills course on the other side of the mid station provides facilities for physical activity. Here, children and adults can put their skills to the test at twelve exciting stations. The Almzeit is an experience for all the senses and the entire family. Input implemented the "Almzeit" concept jointly with Sunkid. The result is an experience for all the senses and for the entire family.



## WLAN in the Gondola – Mountainment®

Hochkönig Bergbahnen GmbH Mühlbach am Hochkönig | Austria



Input and Loop21 are creating a new and innovative additional offering for ski resorts. In December 2013, they jointly equipped a lift in the Hochkönig ski area with the "Mountainment<sup>®</sup>" information service.

During the trip in the King's Cab, skiers and snowboarders have free access to a WLAN. They simply connect their own smartphone to the King's Cab WLAN and can then surf the network as they please. Clearly laid out information pages provide passengers with up-to-date content on weather, events, avalanche conditions and plenty more besides. With just one click, every user can also surf the internet or share photos and comments on Facebook. No special app is necessary. All this is made possible with the "WLAN that can do more". "WLAN in the Gondola – Mountainment<sup>®</sup>" was developed exclusively for Doppelmayr lifts.

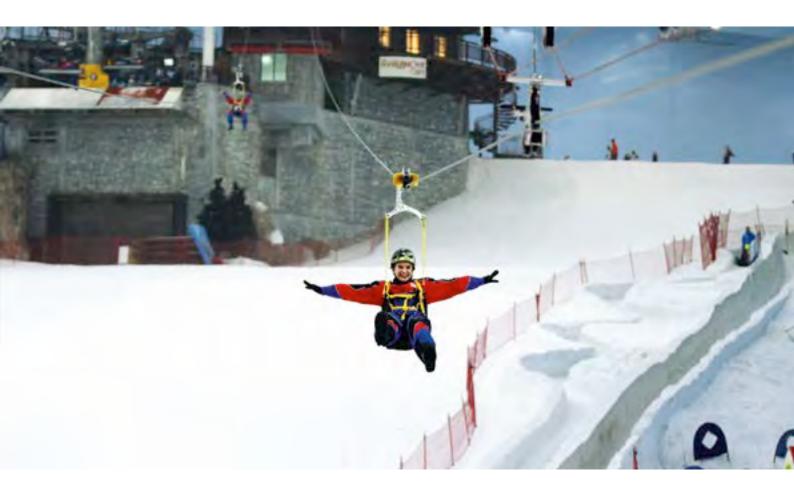




## Zip Line in Dubai



Ski Dubai, Majid Al Futtaim Leisure and Entertainment LLC Dubai | United Arab Emirates



The indoor ski center in Dubai has a new attraction to offer. Anyone wanting more than skiing can now take a bird's eye view of the indoor winter landscape. The new zip line runs at a height of 16 meters above the skiers and snowboarders making their way down the slopes. This lofty adventure was conceived by Input and implemented in collaboration with Austrian partner Rodlsberger. The "Snow Bullet" is also suitable for competitions. Two "air passengers" can start off simultaneously on the two parallel wires and fly from the roof of the center to the finish line at the bottom station – a highlight for all adrenaline fans.



## 178|179 - Contact

## Europe

#### Andorra Doppelmayr S.A. Av. de Joan Marti 114

Edifici Prat del Rector Despatx 2, Planta Baixa 200 Encamp T +376 732 732, F +376 834 593 doppelmayr@andorra.ad

#### Austria

Doppelmayr Seilbahnen GmbH Postfach 20, Rickenbacherstr. 8-10 6922 Wolfurt T +43 5574 604, F +43 5574 75590 dm@doppelmayr.com

#### Doppelmayr Seilbahnen GmbH Außenstelle Stetten Gewerbegebiet 15 2100 Stetten T +43 2262 72508, F +43 2262 72508 12 dm.stetten@doppelmayr.com



#### Bulgaria

ALEX - Mechkov OOD Juri Wenelin Str. 36 1142 Sofia T +359 2 987 3955, F +359 2 987 3955 mechkov@bol.bg



#### Czech Republic

Doppelmayr lanové dráhy, spol. s.r.o. Drazni 7 627 00 Brno T +420 5 31 022 266, F +420 5 31 022 269 office@doppelmayr.cz



## Finland

Doppelmayr Finn Oy Luotsikatu 5 LH 2 00160 Helsinki T +358 9 684 4300, F +358 9 624 120 reijo.riila@doppelmayr.fi

#### France

Doppelmayr France SAS 837/903, rue de l'Isle - BP 80 Pôle industriel de Fréjus 73500 Modane T +33 4 79 05 03 71, F +33 4 79 05 00 18 dmf@doppelmayr.com



#### Greece N. Argyropoulos & SIA E.E.

Mitropoleos 43, I32 15124 Marousi - Athens T +30 210 802 7030, F +30 210 614 6574 nikarg1@otenet.gr

### Iceland

Doppelmayr Skidalyftur hf. Box 333 602 Akureyri T +354 46 217 20, F +354 46 117 40 doppisa@internet.is

#### Italy

Doppelmayr Italia Srl Zona Industriale, 14 39011 Lana T +39 0473 262 100, F +39 0473 262 201 dmi@doppelmayr.com



Macedonia Doppelmayr Seilbahnen GmbH Branch office Skopje UI. Nevena Georgieva Dunja 13-10 1000 Skopje T +389 71 335 122, F +381 30 456 410 dm.skopje@doppelmayr.com

#### Poland

Doppelmayr Polska Sp z o.o. Al. Armii Krajowej 220 43-316 Bielsko-Biała T +48 33 813 8328, F +48 33 813 8329 biuro@doppelmayr-polska.pl



#### Romania

TOC International Str. Aleea Otelariolor, Nr. 5/6 33 1008 Hunedoara T +40 254 742 288, F +40 254 748 687 tocserv@tocinternational.ro



## Russia

OOO Doppelmayr Russia Gastello Str. 23A Adler District, Krasnodar Krai 354340 Sochi T +7 8622 46 6981 hermann.schwarzenbacher@doppelmayr.com



#### Serbia, Montenegro Doppelmayr Seilbahnen GmbH



Branch office Beograd Andrea Kočovski dipl.ing. Ul. Imotska br. 1 11000 Beograd Serbia T +381 30 456 410, F +381 30 456 411 dm.beograd@doppelmayr.com



#### Slovakia

Ing. Tomáš Fried Pribinova 3026/38 010 01 Zilina T +421 905 65 3141, F +421 41 763 2158 tomas@doplik.sk



#### Slovenia

Tehnounion 1 d.o.o. Pod hribom 31 1235 Radomlje T +386 1 513 5102, F +386 1 513 5295 info@tehnounion.eu



#### Spain

Transportes por Cable, S.A. C/ Monte Perdido, Parcela 8D Polígono Industrial Valdeconsejo 50410 Cuarte de Huerva (Zaragoza) T +34 976 274 382, F +34 976 274 383 tpc@doppelmayr.es



#### Sweden, Norway

Doppelmayr Scandinavia AB Svetsarevägen 1 68633 Sunne Sweden T +46 565 688 570, F +46 565 688 579 peter.strandberg@doppelmayr.se



#### Switzerland

**Garaventa AG** Birkenstr. 47 6343 Rotkreuz T +41 41 859 1111, F +41 41 859 1100 contact@garaventa.com

#### Garaventa AG

Zweigniederlassung Goldau Tennmattstr. 15 6410 Goldau T +41 41 859 1111, F +41 41 859 1100 contact@garaventa.com

#### Garaventa AG

Zweigniederlassung Thun Eisenbahnstr. 62 3645 Gwatt-Thun T +41 41 859 1111, F +41 33 334 6820 thun@garaventa.com

#### Garaventa SA

Succursale de Sion Rte des Trembles 14 1950 Sion T +41 27 327 69 00, F +41 27 327 69 01 sion@garaventa.com

#### Garaventa AG

Postfach 138, Tschachen 1 8762 Schwanden T +41 55 647 48 60, F +41 55 647 48 69 schwanden@garaventa.com





#### Turkey

Doppelmavr Turkev Asansör Teleferik ve Kablolu Taşıma Sistemleri İnş. Taah. Ltd. Şti. Ahmet Mithat Efendi Sok. 52/4 06550 Cankaya - Ankara T +90 312 439 0290, F +90 312 440 4262 halparslan@superonline.com



#### United Kingdom

Briton Engineering Developments Ltd. Lee Mills Scholes, Holmfirth Huddersfield HD9 1RT T +44 1484 689 933, F +44 1484 689 944 info@snowflex.com

## Asia/Oceania

Australia



Doppelmavr Australia Ptv. Ltd. 57 Lee Avenue Leesville Estate P.O. Box 515 Jindabyne, N.S.W. 2627 T +61 264 56 2385, F +61 264 56 2736 info@doppelmayr.com.au



#### China

Sanhe Doppelmayr Transport Systems Co., Ltd. Yanchang Road No. 235 Yanjiao Econ. and Techn. Dev. Zone 065201 Sanhe City of Hebei Province T +86 316 339 3030, F +86 316 339 3032 info@doppelmayr.cn



#### Japan

Nippon Cable Co. Ltd. 3-1-4 Akanehama Narashino Chiba, 275-0024 T +81 47 4 517 111. F +81 47 4 513 735 info@nipponcable.com



#### Nepal

Nepal Ropeway Systems (P) Ltd P.O. Box 4416 Naxal, Nagpokhari, Kathmandu T +977 1 443 4718, F +977 1 443 4515 chitawoncoe@chitawoncoe.com.np



#### New Zealand

Doppelmayr Lifts (NZ) Ltd. Box 11 Queen Street Coalgate, 8171 T +64 3 318 27 25, F +64 3 318 26 05 info@doppelmayr.co.nz



#### South Korea

Shin Chang International Inc. Kang Nam P.O. Box 102 Seoul 135-601 T +82 2 511 5522, F +82 2 511 4534 info@doppelmayr.kr



#### Vietnam

Doan Viet Co. Ltd No. 45 Alley 97 Van Cao Str. Ba Dinh District Hanoi T +84 4 384 64610, F +84 4 376 18171 doanviet@viettel.vn

## North America/South America



## Argentina

Pilet Intersistemas S.R.L. Av. de los Constituyentes 4621 1431 Buenos Aires T +54 11 4523 1010, F +54 11 4523 1012 pilet@arnetbiz.com.ar



#### Bolivia

Teleféricos Doppelmayr Bolivia S.A. Av. 20 de Octubre No. 2665 Esquina campos Edif. Torre Azul. Piso 11 Zona Bajo Sopocachi La Paz T +591 2 243 1918, F +591 2 243 1965 bolivia@doppelmayr.com



#### Brazil Doppelmayr do Brasil

Sistemas de Transporte Ltda. Praia de Botafogo, 501 - 1° Andar Torre Pão de Açúcar Rio de Janeiro - RJ CEP: 22250-040 T +55 21 2586 6338, F +55 21 2586 6338 brasil@doppelmayr.com



#### Canada

Doppelmayr Canada Ltd. Head Office Canada 800 St. Nicolas Street St. Jérôme, QC J7Y 4C8 T +1 450 432 1128, F +1 450 432 6043 stjerome@doppelmayr.ca

## Africa



Garaventa Algérie Sarl 26, Lot Ben Achour Chéraga 16002 Alger T +213 2 137 1675, F +213 2 137 3711 algerie@garaventa.com

T +1 250 765 3000, F +1 250 765 5877 kelowna@doppelmayr.ca

567 Adams Road

Doppelmayr Canada Ltd.

Kelowna, BC V1X 7R9

#### Colombia

Doppelmayr Latam SAS 110221 Bogotá D.C. T +57 314 470 25 43 latam@doppelmayr.com



USA

Doppelmayr USA, Inc.

Head Office USA 3160 West 500 South Salt Lake City, UT 84104 T +1 801 973 7977, F +1 801 973 9580 info@doppelmayrusa.com

Doppelmayr USA, Inc.

12441 W, 49th Avenue, Unit 1 Wheat Ridge, CO 80033 T +1 303 277 9476, F +1 303 277 9759 info@doppelmayrusa.com



#### Venezuela

Promociones Munich, C.A. Apartado Postal 65191 Caracas 1065-A T +58 212 953 6444, F +58 212 953 3381 promocionesmunich@gmail.net

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#### Proprietor, editor and publisher

Doppelmayr/Garaventa Gruppe

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