

SNOW EXPERTS

MAGAZINE

TECHNOALPIN®



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Walter Rieder

Erich Gummerer

DEAR READERS,

Innovation is what drives us, and for this reason, TechnoAlpin is also the undisputed leader in snow-making technology. In 2019, we will once again be able to prove that the bar for the quality standard of our products is set at excellence. We are proud to be presenting, not just one, but two new products and solutions at InterAlpin this year.

The **TR10** fan gun is the latest result of the meticulous research work of our development team. With the highest snow output on the market, the TR10 combines optimum utilization of resources with maximum usability. Initial feedback on our pre-production series is extremely positive and constructive.

We are grateful to our customers for their constant support of our development team and input regarding improvements to our products.

The digitization of ski resorts is another one of TechnoAlpin's fortes. We will, therefore, be presenting our new **SNOWMASTER app** at the InterAlpin. It provides ski resort managers with an unrestricted overview of the planning and progress of the snow-making processes. Having developed this app, TechnoAlpin is the first provider to supply ski resorts with forecasts for snow production.

2019 has already gotten off to a fantastic start for TechnoAlpin with the iF Design Award for the TR8. We have various contributors to thank, including the MM Design studio in Bolzano, for winning this award. In this issue, we bring you yet more interesting news and updates on our current projects. Read on to find out about the very first snowmaking system in Pakistan, the modernization projects in Ski Portillo (Chile), Maribor (Slovenia) and Cerro Bayo (Argentina), and projects in China, Austria, Italy and the US. We have also been working on an interesting project with the clothing manufacturer Woolrich, which uses our indoor technology for its showroom.

There are more reports on current projects and other exciting news to discover in this issue of SnowExperts Magazine.

Happy reading! ✉

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IMPIANTI COLFOSCO AND OLANGER SEILBAHNEN

DIGITIZATION IN DEMAND IN EAST SOUTH TYROL

The two winter destinations of Impianti Colfosco and Olang Seilbahnen AG are only a few kilometers apart. These two ski resorts replaced their control systems, consisting of 16 automatic pumping stations, in 2018, thereby ensuring even greater efficiency.

The company Impianti Colfosco belongs to the Alta Badia ski resort, which is part of the world-famous Sellaronda circuit in the Dolomites. The ski resort has been working with TechnoAlpin for 22 years

now and is continually upgrading its snowmaking system to feature the latest technology.

Cable-car company Olang Seilbahnen AG, on the other hand, is part of the ski resort of Kronplatz,



IMPIANTI COLFOSCO

EXTENSION PROJECTS AT A GLANCE

- › Replacement of control systems of 8 pumping stations and integration with ATASSplus
- › One new compressor

www.impianticolfosco.com



IN TOTAL, 16 PUMPING STATIONS WERE INTEGRATED WITH THE ATASSPLUS CONTROL SYSTEM TO GUARANTEE MORE EFFICIENT SNOWMAKING PROCESSES.

which was voted the best winter sports resort in the Alps in a 2018 poll conducted among 46,000 skiers and snowboarders at the resort. Olang Seilbahnen AG has been relying on the expertise of TechnoAlpin since the mid-1990s. Both ski resorts decided to replace their automatic pump station controls in 2018. Eight pumping stations in each ski resort were integrated with the ATASSplus control system with the aim of guaranteeing more efficient snowmaking processes. This integration makes it possible to use the existing resources more efficiently and optimize snow quality all at once. The advantage of the integration with ATASSplus is that all the snow producers and pumping stations can be controlled with one single software package. This simplifies snowmaking operations and allows structured control of the entire system.

Additionally, 26 older TechnoAlpin snow producers on the Olang side of Kronplatz were replaced by new TF10 fan guns. 

OLANGER SEILBAHNEN

EXTENSION PROJECTS AT A GLANCE

- › Replacement of control systems of 8 pumping stations and integration with ATASSplus
- › Replacement of 26 old snow producers with new TF10s

www.kronplatz.com



MOTTOLINO MODERNIZATION IS FUN

With 27 ski slopes, Mottolino is the largest ski area in Livigno, in northern Italy. The ski resort, whose primary motto is fun on the slopes, decided to modernize its existing snowmaking system in 2018 and, having made this decision, it is relying on TechnoAlpin, the technology of innovation leader.

The project encompasses the renovation and extension of four slopes, with the main focus on modernizing the control system. This will enable the system to be even more efficient in the future. The electrical PLC system was replaced at the pumping station on the "Trepalle" slope, and two existing pumps were integrated into the new control system, also enabling a greater flow rate. This facilitates higher snow output, especially in the upper section of the slope. Fun is now guaranteed for freestyle lovers because of the increased reliability of snow coverage at the Snowpark.

The PLC systems at the two pumping stations not far from the "Sponda" and "Vasconi Mottolino" slopes have also been replaced. The pumping stations have been integrated with the Liberty software in order to simplify operation for the snow



**FUN IS NOW
GUARANTEED FOR
FREESTYLE LOVERS
BECAUSE OF THE
INCREASED RELIABILITY OF SNOW
COVERAGE AT THE
SNOWPARK.**

crew. The entire system can therefore be controlled using shared software. Several pits were installed and pipes and cables laid for the extension of the slope at Passo d'Eira. A total of three new Rubis snow lances were also added to the existing fleet of lances in 2018. 🚧



MOTTOLINO MODERNIZATION PROJECT AT A GLANCE



- Renovation of 3 pumping stations
- 3 Rubis snow lances with compressors
- System integration with Liberty

www.mottolino.com



SCHÖNEBEN- HAIDERALM

TWO BECOME ONE

Until recently, there were two ski resorts on the Reschen Pass in the upper Vinschgau valley: Schöneben and Haideralm. Now, there is a new downhill run that has been linking the two ski destinations as of the 2018/19 winter season.

The South Tyrolean ski resort of Schöneben-Haideralm is located in the border triangle between South Tyrol, North Tyrol and the Engadine, in the sun-kissed Vinschgau valley, where TechnoAlpin has already been guaranteeing snow coverage since 2009. The main focus of the 2018 project was to unite the Schöneben and Haideralm ski resorts. A completely new slope was built to mark the occasion and named "Erlebnisabfahrt", which literally means "experience run". In order to make sure the downhill run really is an "experience", a new and powerful snowmaking system was installed. Part of the extensive project was also another new downhill run, the Höllentalpiste, which was also equipped with the latest technology from TechnoAlpin. The aim was not only to connect the ski resorts with each other, but also to combine the two previously independent snowmaking systems into a single system. This will enable even more efficient snowmaking processes and guarantee snow coverage into the spring.

The project, as a whole, included the construction

THE PROJECT AT A GLANCE

- 7.3 km of pipes
- 72 pits
- 1 new pumping station
- 2 extensions of existing pumping stations
- 11 lift-mounted TR8s
- 2 arm-mounted TF10s
- 47 lances with centralized air
- 2 lances with compressors

www.schoeneben.it

of a new pumping station and the extension of two existing pumping stations. It also involved the installation of about 7 km of pipes, 72 pits, 13 new fan guns and 49 new lances.

The 2018 project is another major step in the expansion of the existing system. The ski resort has been working with TechnoAlpin on the modernization and automation of its snowmaking system since 2009 in order to guarantee its customers the optimum skiing experience. Over the past 10 years, 88 snow lances and 31 fan guns have been installed, two new pumping stations have been built, and an additional three stations have been fully automated. 🚧

SNOW EXPERT

The young Swede Erik Reinholdsson has been working at TechnoAlpin for nine years now, and his career to date has been particularly fascinating. It all began outside on the field, on the construction sites where Erik worked every day as a young and dedicated mechanic. After a short time, Erik changed his job for the first time, but he was still working on a daily basis on the construction sites—only this time as a service engineer.

When the TechnoAlpin Nordic branch was set up in Sunne in Sweden in 2015, Erik became a sales representative. For the past four years, he has been doing this job very successfully. He travels through Scandinavia, talking to the various customers, in order to find the perfect solutions for their snow-making systems. Focusing on the customer is the most important aspect of the job for Erik. "It is very important for me to listen to the customers and understand their requirements, ideas and ways of thinking so that it's a win-win situation for both

sides," said Erik. Today, Erik is a pillar of TechnoAlpin Nordic, having earned great respect within TechnoAlpin as a young employee and also from his Scandinavian customers. 🚧

SNOW EXPERT ERIK REINHOLDSSON

Erik Reinholdsson is the best example of how a young and ambitious employee can grow and rise through the ranks at TechnoAlpin.





FASHION SNOW TECHNOALPIN CELEBRATES ITS PREMIERE IN THE FASHION WORLD

White finery for a beautiful stage setting: fluffy flakes of snow anytime and everywhere—all possible with the TechnoAlpin SnowRoom. The gentle cooling feature is already widely used in ultra-modern hotels, and now the innovative SnowRoom is also conquering the fashion world.

The Pitti Uomo in Florence is one of the most important events on the fashion scene and the platform for the presentation of upcoming winter collections of many top clothing brands. TechnoAlpin was a star guest at the Pitti Uomo for the first time in 2018, partnering with the fashion label Woolrich with its mobile SnowRoom. The American company came up with a very special idea for the presentation of its collection, with dancing figure skaters showing the entire collection to the guests in the VIP area. Afterwards, the visitors were invited to try on Woolrich jackets in the SnowRoom and test the function and design for themselves. The product experience is absolutely unique in slightly sub-zero temperatures and snowy surroundings as the climate corresponds to the harsh outdoor conditions for which the jackets are



THE PRODUCT EXPERIENCE IS ABSOLUTELY UNIQUE IN SLIGHTLY SUB-ZERO TEMPERATURES AND SNOWY SURROUNDINGS.

made. Woolrich has already successfully introduced this concept in its flagship store in Milan and plans to equip further stores with the SnowRoom in the near future. The focus is always on the customer experience, whereby the intention is to sell not only the products, but also the world of the Woolrich brand. 📧

indoor.technoalpin.com

TR10 EXCELLENCE RIGHT DOWN TO THE SMALLEST DETAIL

The focus of the development work at TechnoAlpin is on guaranteeing top snow quality while at the same time optimizing the use of resources and maximizing the usability of the snow producers. The TR10 fan gun combines all of these criteria to arrive at a point of excellence at the peak of achievement.





More is more.

A completely new nozzle valve system was designed for the TR10. The central valve block is replaced by individually controllable single valves. Highly innovative and perfectly coordinated, each nozzle block on the nozzle ring is controlled by its own valve. More valves bring more advantages. This new technology means unsurpassed resource efficiency, as the nozzles are now emptied using compressed air. The excess water is integrated directly into the air jet and then converted into snow. This increases the efficiency and also the safety of the snow producer. Thanks to the intelligent valve circuit, the valves can replace each other in the event of a failure, ensuring that the required number of nozzles is always open.

Best snow output in marginal conditions.

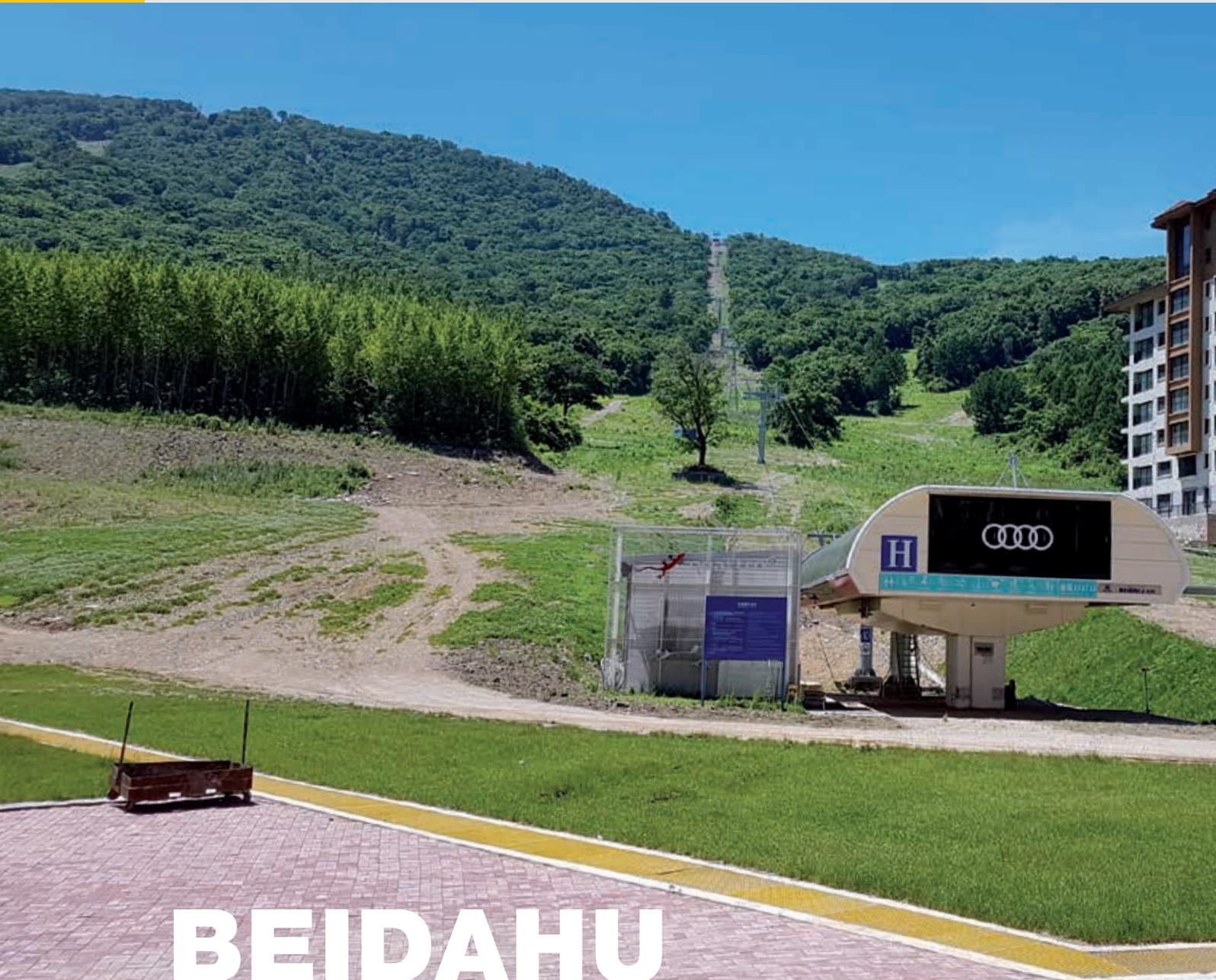
Air cooling on the machine is key to improving snowmaking performance in borderline conditions. The air cooler on the TR10 has been redesigned and improved in order to produce optimum snow even in difficult temperature conditions. It has an unprecedented cooling capacity due to the significant increase in the amount of cooling surface. The TR10 is particularly impressive at borderline temperatures, achieving unsurpassed levels of snow output.

Gemstone-quality snow.

The optimum air and water mixture is a decisive factor for optimum snow quality. All the nucleators on the TR10 are equipped with two machine-made ruby inserts. They boast maximum wear resistance, even in the presence of aggressive water and high operating pressures, and allow the consistent production of high-quality snow over many years.

Always in the lead.

The TR10 is now also easier to maintain and offers improved operational reliability. For TechnoAlpin, simplifying the work of the snowmaking crews is a central goal in its development work. The TR10, therefore, has an automatic height adjustment mechanism that can be individually adapted and comes standard with all machines, whether mobile or permanently installed. With the largest touch display on the market, the TR10 boasts impressively high levels of user-friendliness, even in extreme situations. 🚧



BEIDAHU

GROUNDBREAKING AND USER-FRIENDLY

The new snowmaking routine
made possible by automation



SNOWMAKING CAN NOW BE CONTROLLED QUICKLY AND EASILY, WITH THE HELP OF THE ATASSPLUS CONTROL SOFTWARE, AND FEWER WORKERS ARE REQUIRED.

The ski resort of Beidahu is located in the middle of Jilin province in China and boasts some of the steepest ski slopes in China. Beidahu was one of the first ski resorts in China to take the next logical step in the modernization of its facility and converted parts of the manual system to automatic operation.

After testing snowmaking equipment from different suppliers, the advanced technology and organized approach perfected by TechnoAlpin in China proved to be the optimum solution, and Beidahu has been relying on the innovative know-how of TechnoAlpin since 2010. The snowmaking process in the ski resort area was greatly simplified in 2018. Seven of the existing manual pumping stations were automated, introducing the convenience of computer control. Snowmaking can now be controlled quickly and easily, with the help of the ATASSplus control software, and fewer workers are required.

In addition to the pumping stations, 10 km of slopes were also fully automated. Beidahu can also rely on an extremely strong snowmaking fleet, given that the ski resort increased its snowmaking capacity in 2017 with the addition of almost 100 new TF10

machines—more than half of them arm-mounted. Automation of the various pumping stations allows the ski resort to make optimum use of this powerful snowmaking system. 🚧

BEIDAHU EXTENSION PROJECT AT A GLANCE

- ▶ 39 mobile TF10s
- ▶ 55 arm-mounted TF10s
- ▶ Automation of 7 pumping stations
- ▶ System integration with ATASSplus
- ▶ ATASSplus 2018 update

www.beidahuski.com



**SKICIRCUS
SAALBACH HINTERGLEMM
LEOGANG FIEBERBRUNN**

STRONG SILENT TYPE

High-power low-noise modernization
in Saalbach

The Skicircus Saalbach Hinterglemm Leogang Fieberbrunn ski complex is one of the largest ski resorts in the world, with 270 km of ski slopes. The Saalbacher Bergbahnen mountain railway company decided to extend the Jausern snowmaking system for the 2018/19 winter season.



**A NEW COOLING TOWER SYSTEM,
COMPLETE WITH SPECIAL SOUNDPROOFING,
GUARANTEES QUIET OPERATION, EVEN
DURING THE INITIAL SNOWMAKING PHASE.**



The existing pumping station was redesigned, and the hydraulics and electrotechnics were modernized in order to provide snow coverage more effectively on the Jausern run from the eastern Schattberg mountain. The biggest challenge was to integrate the new pumping station into the existing buildings, but TechnoAlpin rose to the challenge in masterful style. A new cooling tower system with special soundproofing was also installed. The soundproofing suppresses the operating noise, even during the initial snowmaking phase, and was installed in view of the adjacent residential area.

The software side of the system was also included in the extension. The entire system was integrated into the ATASSplus control system, making it easier to operate going forward.

EXTENSION PROJECT AT A GLANCE

- › 25 pits
- › 8 lift-mounted TF10s
- › 2 lift-mounted TR8
- › Construction of a cooling tower system

www.saalbach.com

A total of 25 pits, 10 fan guns and all the cables were supplied by TechnoAlpin for the project. 🚧



MARIBOR VICTORY ALL THE WAY

TechnoAlpin gives Maribor a successful World Cup event

At temperatures of 10°C, only the best snow can offer optimum and consistent conditions for all the athletes at a World Cup weekend.

Two women's World Cup slalom and giant slalom races were held in Maribor in Slovenia on 1 and 2 February 2019. The 55th edition of this event was

again held on the famous and esteemed "Golden Fox" slope.

The ski resort of Maribor has been a customer of



MARIBOR

THE PROJECT AT A GLANCE

- › 17 TF10s on 4.5m lift
- › 1 TF10s on 12m arm
- › 12 mobile TF10s
- › 2 TR8s
- › 2 75-B/BC cooling towers
- › 1 Snowfactory
- › Integration of the four existing pumping stations with ATASSplus
- › 1.2km of cast-iron piping

www.visitpohorje.si



THE SNOWFACTORY ALSO GUARANTEES SNOW IN THE FINISH AREA WHICH IS ONLY 320 METERS ABOVE SEA LEVEL AND PRESENTS A CHALLENGE FOR SNOWMAKING.

TechnoAlpin since 2017 and, in the summer of 2018, it decided to modernize its snowmaking system on the „Golden Fox“ World Cup slope. Essentially, this work was necessary to ensure the smooth running of the races. It is important to note that the finish area is only 320 meters above sea level. Faced with this special challenge, the managers at the resort opted for the cutting-edge innovations of TechnoAlpin. The Bolzano-based leader in snowmaking technology is the ideal partner for such special requirements in order to guarantee optimum snow. The words of praise from the FIS also underlined

the professional expertise and emphasized the quality and quantity of snow on competition days—despite the bad weather conditions.

The project included the installation of 32 fan guns and the integration of the existing pumping station with ATASSplus. A Snowfactory was also installed in the finish area to guarantee snow coverage in warmer temperatures.

Thanks to the TechnoAlpin snowmaking system, the city of Maribor was able to put on two very successful race days and guarantee the smooth running of the events. 🏆

VAL CENIS

INCREASED POWER FOR VAL CENIS



Val Cenis ski resort (Northern French Alps) has undertaken major works on its slopes for the 2018/19 season: Replacement of an 8-seat gondola, construction of a drag lift to open a „beginner“ area and extension of the snowmaking system.

For the snow production, Val Cenis has entrusted TechnoAlpin, the resort's longtime partner, with the works, including the expansion of the snow production equipment and the strengthening of pumping capacities. For the expansion, nearly 4,8 km of new pipes were laid, along with 56 snow guns, including 53 Rubis Evo lances and 3 TF10 fan guns. For the pumping capacity, 3 new pumps, equipped with variable speed drives, are reinforcing what is

already in place. And a 166kW air compressor was installed to feed the new snow guns.

The objective of the project is to make the most of all cold hours before the season and thus guarantee the best slope preparation for the opening of the resort. However, beyond the aspects related to the performance of the facility and the sustainability of the winter business of the resort, the operator also



wished to focus on the environmental aspect of the production of snow.

This is confirmed by Yves Dimier, the ski resort director: „The reinforcement of our snowmaking system designed and carried out with our partner Technoalpin allows us to guarantee a quality product to our customers as well as to secure the

VAL CENIS

AT A GLANCE

- ▶ 53 Rubis Evo R10
- ▶ 3 TF10
- ▶ 2 Pump 70 l/s and 110kW
- ▶ 1 Pump 42 l/s and 400kW
- ▶ 2 Air compressor 166kW
- ▶ Update of the Liberty software

www.valcenis.ski



THE OBJECTIVE OF THE PROJECT IS TO MAKE THE MOST OF ALL COLD HOURS BEFORE THE SEASON AND THUS GUARANTEE THE BEST SLOPE PREPARATION FOR THE OPENING OF THE RESORT.



176 direct jobs and the more than 1000 indirect jobs that we generate. The good knowledge of our territory through our environmental observatory, including the smart management of water resources, has been a real asset in integrating this project into Val Cenis' strategy of combining tourism with sustainable development. „

With this project, TechnoAlpin is proud to support the development of the Val Cenis's snowmaking facility and thus contribute to the success of its operating objectives, and to the satisfaction of its guests. 🚧

DESIGN AWARD



TR8

REVOLUTION AND BEAU

The TR8 fan gun revolutionized the snowmaking market in 2017 with its innovative drive technology and functional design. Now, the snow producer has won the prestigious iF Design Award for product design.



The TR8 went up against 6,400 submissions to win the accolade. TechnoAlpin has once again proved its pioneering role on the snowmaking market, and one that is not limited merely to the technological aspects. “Unique, innovative, modern and, above all, sustainable design is not unique to Ferrari,” stated Erich Gummerer, confidently. “This is now also reflected in our winning the prestigious iF Design Award. We are convinced that our expertise and the

combination of our Alpine roots with international ambition are the key to our joint success with the MM Design studio.”

Function and design go hand in hand.

As a global leader in snowmaking technology, TechnoAlpin is very familiar with the challenges of ski resorts, where function and design go hand in hand. Just as the technology of the machines is geared to the demands of ski resorts, the functional design also caters to their requirements and combines the innovative operating principle of the TR8 with great ease of use. “The design of the TR8 is a stylistic expression of the combination of functions needed by such a complex machine. Not only is it a milestone in terms of style, but it also speaks an evolutionary design language formed at TechnoAlpin, the leader in this sector,” said Alex Terzariol, Director of MM Design. 🚩

NARY TIFUL



**UNIQUE, INNOVATIVE, MODERN AND,
ABOVE ALL, SUSTAINABLE DESIGN IS NOT
UNIQUE TO FERRARI.**

USA



SUICIDE SIX HISTORY MEETS THE FUTURE

History and the experience for the customer is what Suicide Six ski area is all about

When the ski resort moved its location to the current site, which was hill number Six on the map, in Pomfret Vermont, USA, someone said that it would be suicide and the name was born. The rest is history: founded 1934 the ski area had the first motorized lift in America and has one of the longest running FIS races in the United states.



**WE CAN COVER A
MUCH LARGER AREA
IN SUCH A SHORT
AMOUNT OF TIME.**

TIM REITER

Ushering this resort into the future is the responsibility of General manager Tim Reiter. One of his first things on his agenda was to upgrade the snowmaking system and change the snowmaking philosophy at the resort. Suicide Six is limited with the amount of water it can pump, and automation is one of the keys to taking advantage of small weather windows and making sure that it makes efficient use of their pumping capacity. By focusing on priority trails with high quality snow the goal is to give customers a great snow experience.

Suicide Six purchased seven T40 automatic fan guns on towers, one TF10 automatic fan gun on a 30-foot arm, 2 V3 automatic lances, along with 2 TF-10 mobiles the previous year, all controlled by ATASSplus. Tim said, “by automating our signature trail – The Face – it is now possible to use capacity in production while we are setting up and preparing to make snow elsewhere. It also allows us to get guns online more quickly and the throw of the fans is so far superior to our previous lance guns, that we can cover a much larger area in such a short amount of time.”

Tim also commented on the addition of the new equipment has allowed them to increase efficiencies, use less resources, and continue their goals of being good stewards of the environment. 🚧



www.suicide6.com



SKI PORTILLO

MODERNITY WITH VINTAGE FLAIR

Chile's flagship Ski Portillo resort

70 years old and still ultra-modern: Ski Portillo, in the northern region of Valparaíso, is one of the oldest and most prestigious ski resorts in Chile. In 1966, the ski resort was the first in the southern hemisphere to host an Alpine Ski World Cup event and has always been a Mecca for all who seek perfect quality on and off the slopes.

The ski resort will expand and modernize its snow-making system in 2019, thereby investing in the future. It will be possible, in the future, to cover the entire surface of the slopes with snow within 70 hours—a fivefold increase in output. The entire water management system has been extended and automated to this end. Twenty-five new TF10 and T40 fan

guns will guarantee even more snow output. Eight meteo stations have also been installed throughout the ski resort, making it possible to react with pinpoint accuracy to the slightest changes in the weather and to produce snow under optimum conditions at all time. The use of meteo stations greatly increases the scope for planning and managing



SKI PORTILLO

EXTENSION PROJECTS AT A GLANCE

- 13 TF10s
- 12 T40s
- 60 pits
- 8 km of power lines
- 8 meteo stations
- Installation of ATASSplus

www.skiportillo.com

the snowmaking processes. The ability to consult the latest weather forecasts can guarantee the ideal utilization of resources. The installation is controlled with the aid of the ATASSplus software which makes it possible to optimize the detailed weather data processing in order to improve snowmaking operations and start at any time of the day or night. 📧



**IT WILL BE POSSIBLE,
IN THE FUTURE, TO
COVER THE ENTIRE SUR-
FACE OF THE SLOPES
WITH SNOW WITHIN 70
HOURS—A FIVEFOLD
INCREASE IN OUTPUT.**



NALTAR

IT'S A FIRST!

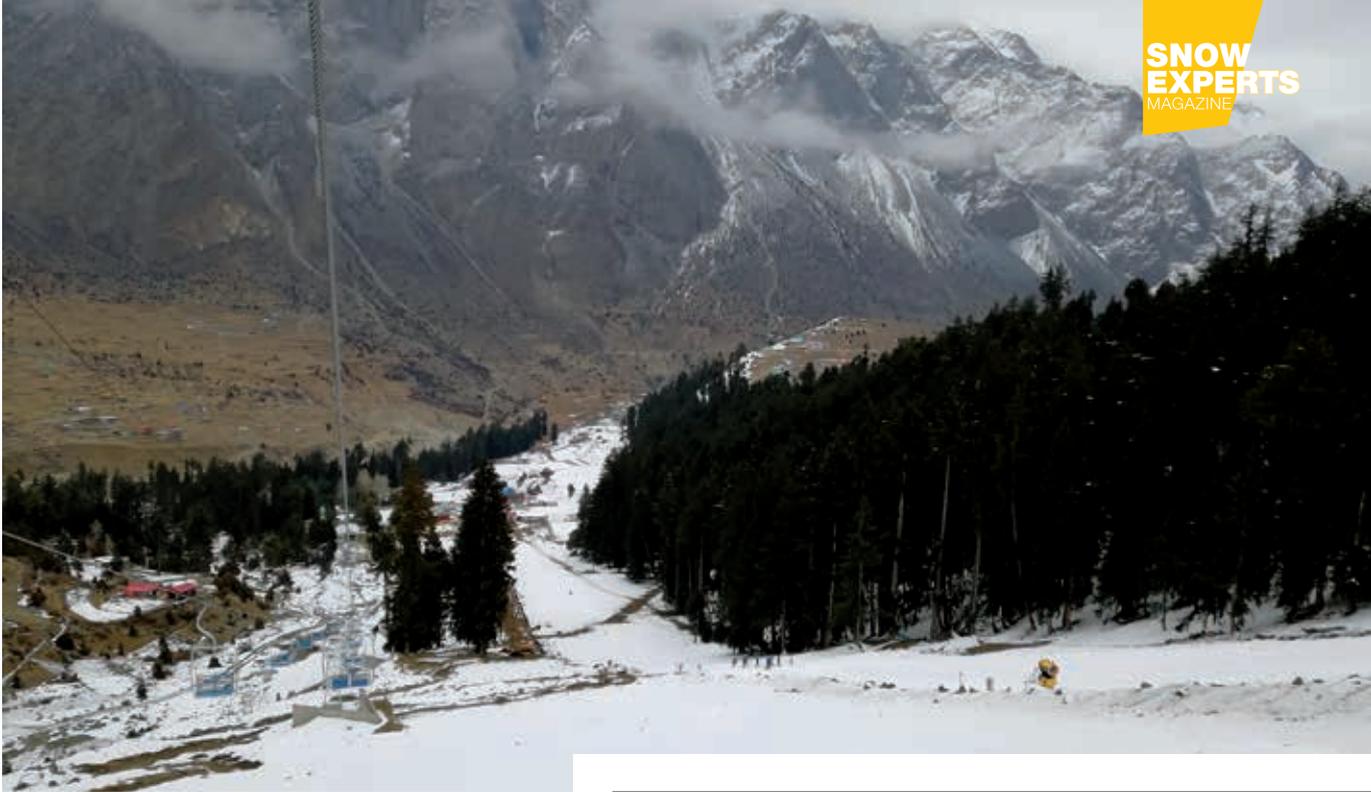
TechnoAlpin builds the first snowmaking system in Pakistan

High in the north of Pakistan, it is possible to ski at almost 3,000 meters above sea level. The ski resort of Naltar is operated by the Ski Federation of Pakistan which aims at bringing skiing facilities closer to the Pakistani population.

Last year, the Ski Federation of Pakistan (SFP) decided to install a snowmaking system and placed its trust in TechnoAlpin's many years of experience. In order to guarantee snow coverage at the ski resort, a new pumping station was built and almost one kilometer of pipelines and steel power cables

was laid. Four manual mobile MMS fan guns will ensure optimum snow conditions in the future.

The outstanding feature of these machines is their simple and intuitive handling. The machines' mobility allows them to be used individually as required. After just one season, the SFP is already more than



satisfied with the partnership. "There were no problems during the installation and start-up processes, mainly thanks to the TechnoAlpin staff, who are very professional and work extremely efficiently. The snowmaking system itself is user-friendly and easy to operate and maintain. We had a very successful season and were able to run all the FIS races as planned. We are particularly pleased about this, as we had to cancel some of the races last year. Thank you, TechnoAlpin!" stated Shahid Nadeem, Secretary General of the Winter Sports Federation of Pakistan. 🇵🇰



THANK YOU TECHNOALPIN!

SHAHID NADEEM, SECRETARY
GENERAL WINTER SPORTS
FEDERATION PAKISTAN.



www.sfp.com.pk



VERBIER

PERFECTLY

TECHNOALPIN DELIVERS TURNKEY SUCCESS FOR VERBIER

Verbier is in French-speaking Switzerland and, together with La Tzoumaz, Veysonnaz, Nendaz and Thyon, it belongs to the largest ski resort in Switzerland, Les 4 Vallées. The ski resort is again relying on TechnoAlpin technology in the 2018/19 winter season to guarantee the best snow for its many visitors.



**ONE-STOP SHOP FROM
PLANNING AND INSTALLATION
TO START OF OPERATIONS.**

PLANNED

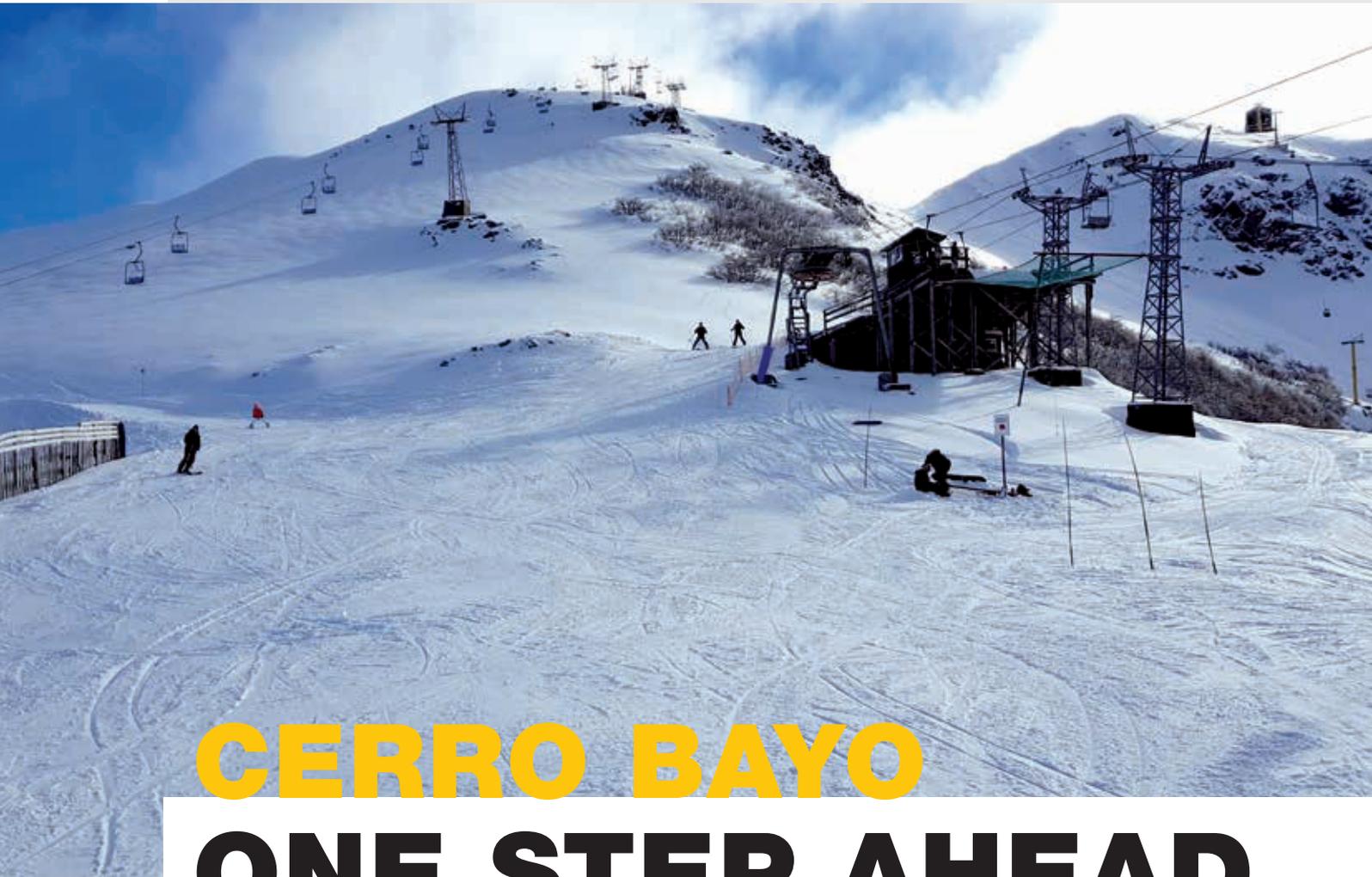


The snowmaking system in Verbier has been built in various phases over the last three years and has been continuously adapted to the conditions. Verbier has been working with TechnoAlpin for the same number of years. The aim of the project was to supply the main slope linking the villages of Verbier and La Tzoumaz with snowmaking equipment. A total of three kilometers of cast iron pipes will be laid and 25 snow producers installed for this project. Several valve pits will be installed also in

order to make it possible to connect different slopes in the future and cover them with snow.

This project is made special by the fact that it is a turnkey solution. TechnoAlpin is responsible for the execution of the entire project, from planning right through to the delivery of the material and construction of the system. The system will also ultimately be commissioned by the leading innovator from Bolzano. 🇮🇹

www.verbier.ch



CERRO BAYO

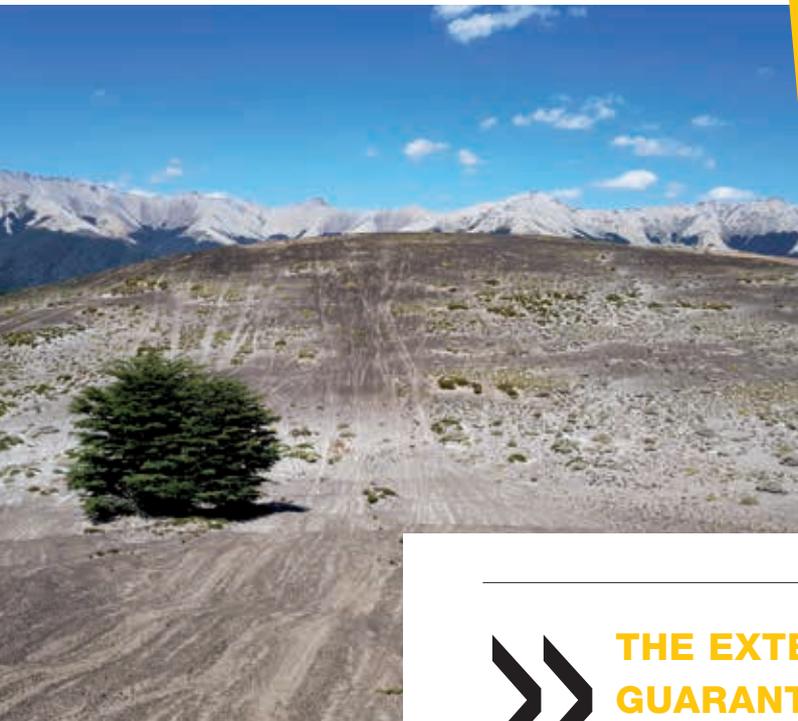
ONE STEP AHEAD WITH A SNOW-MAKING SYSTEM

The ski resort of Cerro Bayo is located in the region of Neuquén, in the middle of the beautiful Andes, not far from the Chilean border. The ski resort has been in existence since 1990 and this year decided to build its first snowmaking system ever.

Wishing to offer its many visitors optimum slope conditions, the ski resort opted for the pioneering technology of TechnoAlpin. This decision was mainly prompted by the potential to guarantee

its many visitors a ski season lasting 100 days.

The winter destination is located directly on the world-famous “Camino de los Siete Lagos”, one of the biggest tourist attractions in South America. At



CERRO BAYO

THE NEW PROJECT AT A GLANCE

- › 2 TF10s
- › 19 pits with automatic installation
- › 1 automatic valve pit
- › Installation of ATASSplus

www.cerrobayo.com.ar



THE EXTENSION IS DESIGNED TO GUARANTEE THE MANY GUESTS OF CERRO BAYO A SKI SEASON LASTING 100 DAYS

the same time, Cerro Bayo is one of the largest ski resorts in Argentina and attracts countless numbers of winter sports enthusiasts who come here every year to ski.

The project is divided into two phases. The first phase will see the installation of several snow pits and two TF10 fan guns with mobile pumps that will

be operated by the ATASSplus control software.

The second phase will involve the construction of a snowmaking reservoir and a pumping station, as well as the installation of additional snow producers.

Thanks to this system, the guests will be guaranteed snow-covered slopes throughout the winter and all the fun and enjoyment they bring. 🚧



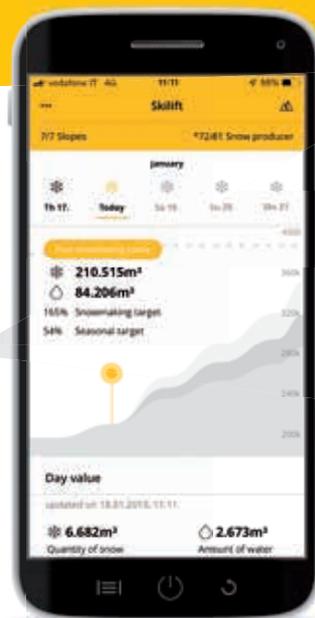
SNOWMASTER THE NEXT STEP TOWARDS DIGITIZATION FOR SKI RESORTS

The new SNOWMASTER app, developed by TechnoAlpin, gives ski resort managers an unrestricted overview of the planning and progress of the snowmaking processes. The basic factors for management decisions can therefore be accessed anytime and anywhere—and all in a handy format.

Smart communication

How much snow is on the slope? How many hours have the snow producers been running? How many snow producers were in operation? And most importantly, when can I open the ski resort? The answers to these and other questions are summarized quickly and clearly in the SNOWMASTER app and with reference to individual slopes. The app simplifies communication between the management and the snowmaking crew.

The SNOWMASTER app is connected to the ATASSplus control system and can access large amounts of the data collected by the control software. The system is still controlled by the snowmaking crew with ATASSplus, however all the data required to make decisions are displayed quickly and clearly in the SNOWMASTER app in real time.



Making tomorrow's decisions today

TechnoAlpin processes this data and is the first provider to supply forecasts for snow production. Taking account of detailed weather forecasts from ATASSplus, the SNOWMASTER app projects the possible amount of snow to be produced and the water required. 📊



DID YOU KNOW...

...that a new milestone was reached in the production of snow producers in 2018?

Since the start of production, TechnoAlpin has produced 111,111 machines. The machine number 111,111, with its special serial number, was lined up for a special place and is now in France on the slopes of l'Alpe d'Huez (near Grenoble, home of the 1968 Olympics). This TR8 fan gun—which a special graphic design inspired by the Pic Blanc mountain ridge line —was installed there last October. L'Alpe d'Huez was chosen on account of its snowmaking strategy. Two years ago, the ski resort started converting to fan gun technology, and more than 80 fan guns have now been installed.

...that the new TechnoAlpin production facility was completed in record time?

The excavation work to dig the pit for the new production building only started at the end of February

2018. Now, 14 months later, the 110,000 m³ building has been completed and fully equipped. With three stories in total (one of which is underground), the new structure houses all the production facilities, a warehouse for snow producers, offices, and meeting rooms. From now on, all TechnoAlpin and EmiControls machines can be produced in the new building.

...that TechnoAlpin and Swiss-Ski are working in partnership to recruit a new generation of skiers?

TechnoAlpin is a Swisscom SnowDays and Dario Cologna Fun Parcours event partner. Both projects aim to promote winter sports among children and teenagers, and focusing on children in grades 3 to 6 who live in towns and cities. Preference is given to children who would otherwise be unlikely to access winter sports for various reasons (cultural background, origin or financial situation). 🚧





YEAR-ROUND PASSION FOR SNOW OF ALL VARIETIES!

TechnoAlpin finds itself in a perpetual state of growth and is constantly looking for additions of the qualified and dynamic variety. There are many opportunities for personal and professional development for committed individuals with a gift for technology. The company is in a cycle of constant growth, particularly in the fields of software development, programming, design and engineering. Many TechnoAlpin employees work both locally and internationally. Whether at ski resorts worldwide or in the branch offices, the company offers a wide variety of scope for development.

We would like to take this opportunity to extend a special thank you to our partners. The commitment and professionalism they demonstrate is what makes TechnoAlpin a leading Company.



Auto Brenner

