

# MANUFACTURING WOW EFFECTS



**ROLLBOB®**  
DYNAMIC. SAFE. UNIQUE.





## ROLLBOB®

Each and every track is unique

As unique as the mountain, as dynamic as possible, and as individual as desired – the innovative ROLLBOB® track embodies a **new generation of summer toboggan runs**.

Riding down the silhouette of the mountain following the natural contours with steep inclinations, thrilling tilts, and extremely tight radii. **An action-packed ride with outstanding views of the surrounding alpine terrain** guarantees a thrilling experience for families, friends and adrenaline junkies alike. Not only can the state-of-the-art dynamic riding experience be optimised and tailored to any target group, it can also be individually and topically themed during the thorough planning stage to incorporate specific surrounding features along and around the ROLLBOB® track. This provides an additional benefit in value to the destination, particularly in summertime. The year-round and weather independent usability of the ROLLBOB® track furthermore generates a higher added value for the entire region and allows for shortened payback periods – regardless whether in the mountains, in the valleys or in urban areas.



# A NEW GENERATION OF SUMMER TOBOGGAN RUNS

## Bonding with the mountain

The characteristics of every mountain are unique. That is why the terrain is surveyed using GPS data recording in order to individually customise the ROLLBOB® track to the topography. Running the rail as close to the ground as possible offers significant advantages: Anti-fall protection systems become obsolete and optically, the track blends in perfectly with the surrounding terrain. **The rail is elegantly embedded in the contours of the countryside.** Different to a standardised construction with extensive support structures, its proximity to the ground and **its ability to blend in with the natural surroundings** sets ROLLBOB® apart from other runs.



## A mountain ascent with special technical features

A special rope clamp in the **mountain conveyance system enables changes in direction**, making right and left curves possible both down and uphill. The near-ground track construction means that extensive support structures are no longer required for conveyance.



## Dynamic yet gentle

**Gripping bends, tight radii, and a second-to-none dynamic riding experience** – all made possible by the cardanic suspension and the hinged axles. Abrupt or jerky transitions in and out of curves are prevented, creating a smooth tobogganing experience.

The tight radii also make it possible for **tracks to be mounted on areas with restricted space**, making tobogganing fun also possible on urban slopes, recreation areas or indoor halls.



Maximum  
Speed



Maximum  
Inclinations



Minimum  
Radii



Maximum  
Tilts



Year-Round  
Usability



Weather  
Independence



Day and  
Night  
Operation



## USE, SUSTAIN AND PROTECT

### Taking responsibility

An intact natural environment in alpine areas builds the solid bedrock for tourism and subsequently local economies. It is thus imperative to preserve this invaluable resource on a long-term basis. Therefore, the operations of Mountain Innovations are centred around **future-oriented thinking and ecological sustainability**. The extraordinarily narrow rail alignment and the low curve radius enable the construction area to be kept to a minimum. This optimised and comparatively minor intervention in the countryside has a positive effect on the natural landscape. That way, the excitement of the ROLLBOB® track is also established on shorter runs.

- Optimal customisation of the track to the contour of the terrain
- Best possible technical and optical integration into the natural surroundings using narrow rail alignment and near-ground rail guidance without extensive support structures
- Little interference in natural habitats and wild animal routes
- Economical and ecological use of high-quality and durable construction materials
- Free-from-residue dismantling possible due to reduced incorporation of concrete thanks to ground anchor technology that dispenses with concrete foundations
- Minimising building structures through a bundling of cultivated areas and the use of subterranean start and finish areas







## SAFETY FIRST

### Strict adherence to maximum safety standards

Mountain Innovations draws on almost 100 years of know-how when it comes to the highest safety standards and internationally recognised certifications.

The ROLLBOB® offers **derailment-proof riding pleasure**. The closed shell of the bob protects passengers from injuries by safely keeping their hands and legs inside.

The padded backrest in combination with the H-belt system stabilises the driver's entire upper body.

The specialised pelvic belt system gives the passenger best possible protection and also enables handicapped customers to take a ride with the ROLLBOB®.

As a premium provider, Mountain Innovations works according to the highest valid safety standards. Every ROLLBOB® track, including all building structures, is designed and realised in adherence to the latest rules and standards. To guarantee this, Mountain Innovations continuously cooperates with various notified bodies and certified institutions at national and international levels.







# ALPINE ADVENTURE WORLDS

created in and with nature

Mountain Innovations specialises in orchestrating modern alpine experiences and alpine adventure worlds in and with nature. An authentic and individual design of all elements as well as a consistent and a holistic storyline are of prime importance and play a vital and elementary part.

## Individual theming



In consideration of the local and existing features, resources and **unique selling propositions, individual and profitable theming concepts** will be developed in cooperation with all partners. Current, promising trends and ecological considerations such as environmental protections as well as pre-existing philosophies and approaches will, of course, all be taken into account during this process.

## Authentic design



ROLLBOB®'s varied and versatile design options (entry and exit, track layout, bobs, garaging, adjoining conceptual elements) are **exciting, action-packed, and incredibly multifaceted**, as the example "Fly like an Eagle" shows. There are no limits to individual design: everything is possible, from a personal "look and feel" to conceptual and thematic design integrations.





### Innovative technologies



**Unique visitor experiences** may happen on multiple levels and **various channels of perception**. Therefore, **innovative technologies are enriched with interactive elements** in order to provoke a unique and multisensory **wow-effect**. This includes an appeal to cognitive senses through sound engineering, the use of digital media, and projections as well as a playful incorporation of virtual and augmented reality, combined with real (local) Points of Interest (POI).

### Edutainment



Methods for **imparting knowledge** used sensibly and purposefully and **combined with new technologies** allow children, teenagers, and adults to fully immerse themselves individually, playfully, and excitingly with the offered topics and themes. **Entertaining (learning) content** is not just attractive and pleasing but may also amplify interest and motivation to actively participate both mentally and physically.



# FEATURES



## Revolver – innovative parking

The vertical revolver magazine technology offers space for up to 24 bobs and can be connected both above as well as below ground. The bobs roll into the magazine automatically and may be dispensed independently as required. The technical refinement of this space-efficient parking system is as unique as it is outstanding.

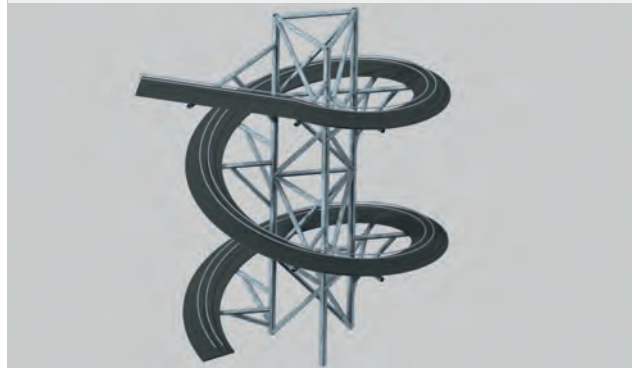
## Catapult – chicken or hero

Thrilling rocket launch or gentle roll? A touchpad lets you select your preferred acceleration speed. This means an acceleration to maximum speed with either an additional 0.7g (Hero) or purely through gravity (Chicken). This launch system guarantees a thrilling experience from the very first second.

## Tornado – panoramic roundabout



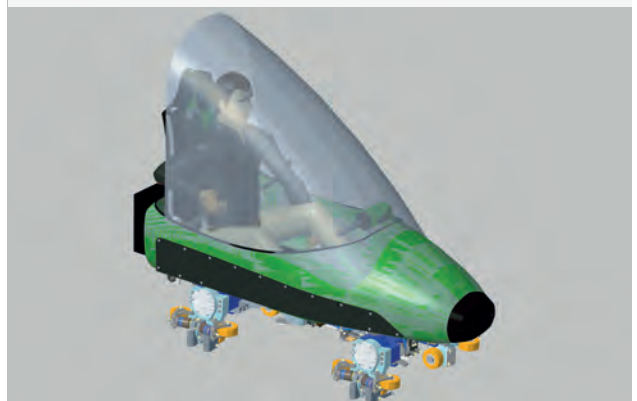
## Vertical loop – the perfect element to bridge differences in altitude



## Panorama station – weather-protected entry and exit point and/or parking system



## Bubble – weather-proof roof construction







# INSPIRE. ADVISE. ACCOMPANY.

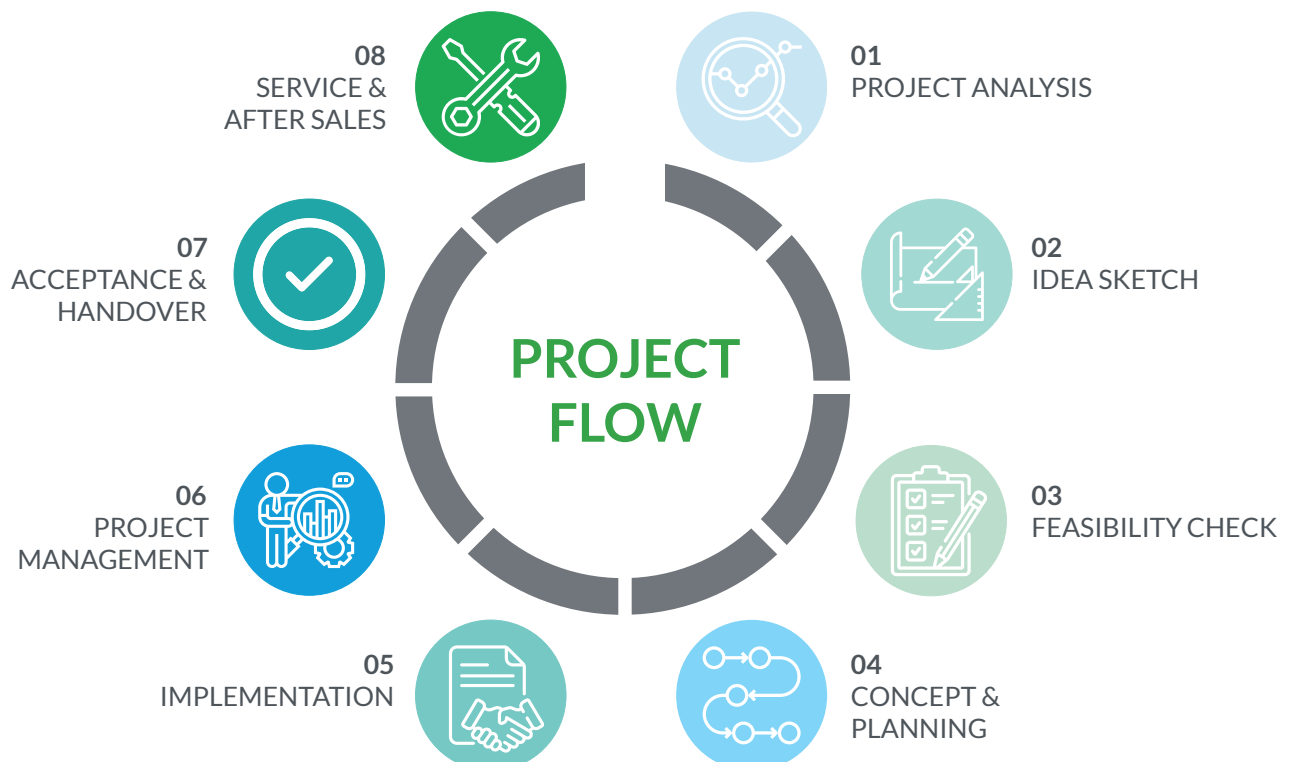
## Personally & qualified

The planning stage is a complex process. Therefore, a well-structured project flow is imperative. Mountain Innovations inspires, advises, and accompanies its customers and partners every step of the journey and at all levels. Technically, conceptually, and economically.

A detailed planning process as well as high-quality project documents are not just the foundation for a decision-making process by the person, body, or committee responsible. They also facilitate a rapid handling of various procedures such as submissions, permits, and funding.

A designated project-reference person ensures:

- personal and individual consulting
- consistent communication
- efficient project management
- as well as a controlled quality assurance







# COOPERATION WITH PROFESSIONALS

Quality, competence and partnership

For Mountain Innovations as a **premium provider**, supreme project quality is a requirement. Being a subsidiary of ZIERER, the enterprise can rely on the extensive know-how of the STREICHER Group at any time. The wide range of manufacturing options that Mountain Innovations offers allows for an individual realisation of each project. The high degree of in-house production and the consequent ability to guarantee deadlines assures highest quality project execution.

The modular construction design shortens assembly time and efficiently arranges the construction process.

Mountain Innovations oversees every project during its entire lifespan. The qualified, internal after sales service provides round-the-clock support. Mountain Innovations develops every project in cooperation with its partners. The agile and close communication allows each project to be tailored to the requirements and wishes of the customers.



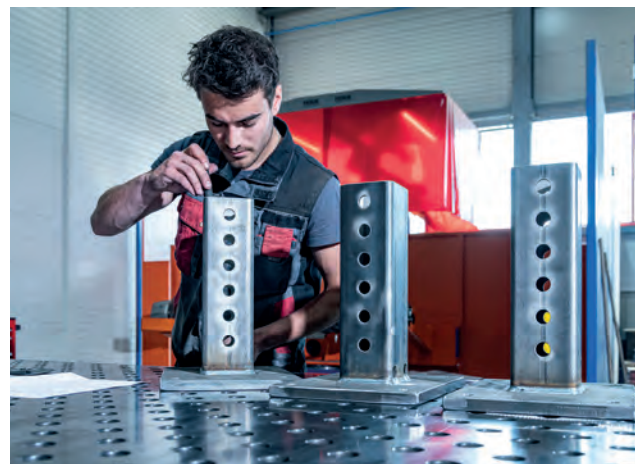
Trouble-Shooting



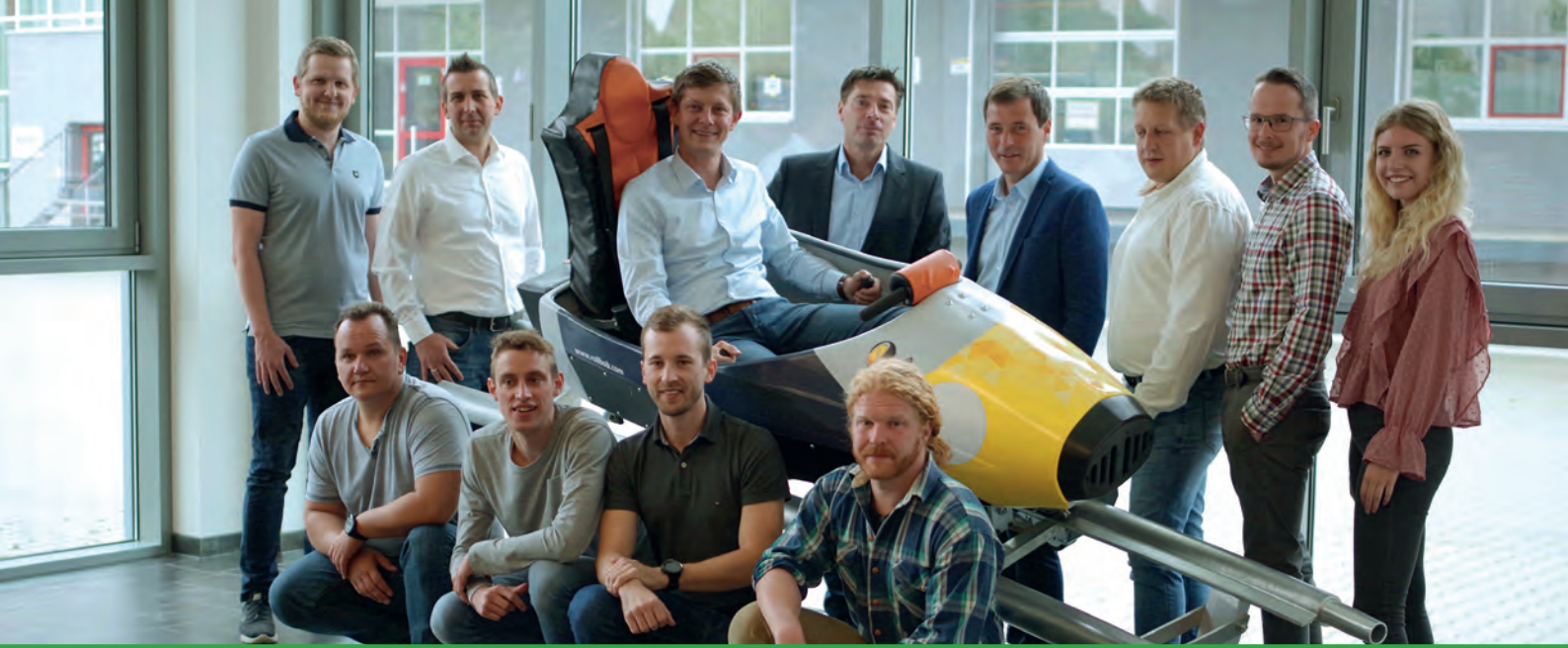
Spare Parts Depot



24/7 Hotline







## A PERFECT SYMBIOSIS

### Experience & know-how meets innovation

The corporate parent STREICHER Group employs around 4,000 people at 30 locations around the world and can look back on a success story of over 100 years in the following spheres of business:

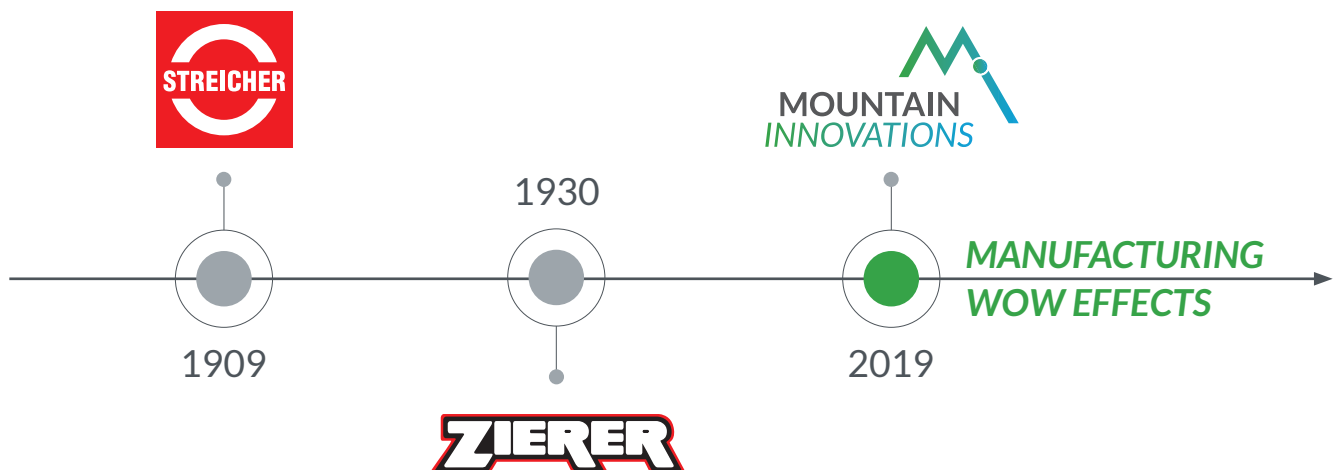
- Pipelines & Plants
- Mechanical Engineering
- Electrical Engineering
- Civil & Structural Engineering
- Raw & Construction Material

The companies within the STREICHER Group enterprise specialise in a variety of services. This enables them to operate efficiently and purposefully on the market. While ZIERER has been involved in renowned amusement parks all over the world for over 90 years, its subsidiary Mountain Innovations was founded in

June 2019 as a new branch of business outside of the theme park sector in order to realise adventure offers in and with nature in alpine areas.

Mountain Innovations – an Austrian-rooted company that forms the perfect business symbiosis with the STREICHER & ZIERER enterprises.

Mountain Innovations' highly qualified consultants have 25 years of alpine experience and expertise – not only in terms of development, but also when it comes to operational procedures for leisure facilities. This allows the company to draw on extensive experience and **know-how gained in almost 100 years of experience orchestrations** – on technical, planning, and conceptual levels.





# MOUNTAIN INNOVATIONS LAB

The name reflects the aim

Re-thinking alpine experiences in and with nature and re-defining standards with innovative, authentic, and sustainable leisure activities in alpine areas is the Mountain Innovations philosophy. This is the maxim with which Mountain Innovations strives to make constructive contributions to alpine tourism. Seeds of thought, approaches, and ideas - there is innovation in abundance within our companies and organisations - convincing, unique, visionary.

The aim of the **Mountain Innovations Lab** is to create an environment in which **innovation impulses and ideas for alpine adventure facilities are generated**, brought together, and structured, together with creative internal and external partners, as an ongoing process, resulting in implementation and market launches.

Courageous ideas, strong partnerships, and safe and sustainable solutions are what the Mountain Innovations Lab stands for.



# NATURAL POWER TOWER

