With the construction of the first Wiegand Summer Toboggan Run in 1975 at the company-operated resort on the Wasserkuppe, Rhoen, the foundations were laid for a successful and continuously growing family-run company.

Continuous development and the expansion of our range in the leisure sector have become the core tasks of our company. As a consequence, we have been able to develop and acquire several patents for our toboggan rides. Due to our flexibility we are able to meet the increasing demands and requirements, making us the long-standing global market and technology leader in the toboggan sector. With more than 450 systems produced and assembled on every continent, we have been able to continuously increase the quality and safety of our products.

Amongst other aspects, the exceptional economic viability of Summer Toboggan Runs is due, amongst other things, to the interest of all ages from young to old. At suitable locations a Wiegand Summer Toboggan Run offers a payback period of just a few years with 150,000 to 300,000 trips per season, with top tracks even achieving over 500,000 trips.

With the Wiegand Alpine Coaster we offer our customers an evolution of the traditional Summer Toboggan Run. The possibility of year-round operation makes the Alpine Coaster the bestseller in our product range, as ski resorts, which are also increasingly focusing their attention on summer operations, acknowledge the remarkable profitability of the Alpine Coaster.

The Wiegand trough-shaped run consists of a trough-shaped stainless steel channel. As with the Alpine Coaster, the rider himself decides on slow or fast runs. Deep-drawn curved sections provide for an incomparable driving experience with high safety standards.

The Lifter system is a transport system specifically developed for Summer Toboggan Runs. It transports the slides together with the passengers automatically from the bottom to the top station.

The Summer Toboggan Run on rails for all terrains. You whizz silently in secure, comfortable two-seater sleds, determining the speed at will - up to a top speed of 40 km/h. The Alpine Coaster is requires no foundations, instead it rests on the ground, held in place by pegs. Passengers experience an exciting and varied ride at dizzying height, as the track can be installed between one and six meters above the ground. Jumps, twists, circles and camelbacks increase the thrill, in any weather, in any season, also available with easy to assemble rainhoods.

Our all-weather sports installation
Safety 365 days a year
Specifications

The toboggan run with the incomparable curve feeling
Specifications

Uphill transport with Wiegand Lifter, the towing lift or chairlift

More Wiegand products
Whether Alpine Coaster, trough-shaped run or both side by side: Wiegand toboggans enrich the range of tourist attractions of your area, in combination with other facilities or as a stand-alone attraction. Depending on the product, our clients include municipalities and hoteliers as well as many investors and entrepreneurs and of course, ski lift and cable car operators. Summer Toboggan Runs fit well into amusement parks, experience has shown that these are the most frequented attractions or form the basis for a park or similar facility. The proximity to a busy street or a popular destination increases the attractiveness of a potential summer toboggan site.

The positive acceptance by the public guarantees the operators of toboggan runs short payback periods and best returns.

Summer Toboggan Runs are sports facilities which require the rider to act self-responsibly. There is consequently a risk of personal misconduct among passengers. Accidents nevertheless occur very rarely. Luge athletes actively participate in the runs, allowing them to determine their driving style and even their speed. The rider himself decides whether it moves fast or slow, alone or in pairs. This interaction is one of the key reasons for the riders to return time and again.

Children above the age of 3 may use the run with an adult, children above the age of 8 may drive the sled itself. It is the combination of sports and fun which constitutes the charm of a Summer Toboggan Run from Wiegand.
The Alpine Coaster is our all-weather toboggan run and, as the name implies, can be operated at any time and in any weather. Whether sun, rain, frost or snow, it is always possible to ride the Alpine Coaster. Like the trough-shaped run, the Alpine Coaster offers the luge athletes the opportunity to set the speed of the sled themselves. The comfort sleds, running on maintenance-free steel tubular rails, are designed for one or two people and whiz silently down the mountainside.

Even two adults can enjoy their ride together on Wiegand sled. The tracks are elevated without foundations and vary in height from one to ten meters. Jumps, twistles, circles and camelbacks ensure a varied ride and thus increase riding enjoyment.
OUR ALL-WEATHER TOBOGGAN RUN

THE ALPINE COASTER

TECHNICAL SPECIFICATIONS

THE ALPINE COASTER

THE WIEGAND LIFTER

THE STORAGE SYSTEM

P 06

P 09

Les Saisies (France)
Mount Cranmore (USA)
Thale (Germany)
Pec pod Slněžkou (Czech Republic)
Riol (Germany)
Kaprun (Austria)
Wald-Michelbach (Germany)

P 10

P 10/11

P 12

P 12

P 20
OUR ALPINE COASTER
MAXIMUM SAFETY
365 DAYS A YEAR

- Optimal derailment safety on two rollers
- Optimized curve radii and inclinations
- Seat belt for each passenger, lockable on request
- Safety walks and safety nets from 1 m height
- Brake belt at end of track or Wie-Cruise brake
- Speed limitation via centrifugal brakes or Wie-Cruise brake
- Optimized end of track through selective brake system or Wie-Cruise brake
- Dead man’s handle principle for sled brake
- Certified statics and verified to wear limit class K4/B6
- Approval of Technical Inspection Authority (TUEV) guaranteed, international patents
- 500 pph transportation capacity
- High return
- Individual planning on site
- No foundations (only Lifter stations, circles and bridges), low groundworks
- Supports for terrain compensation
- Road and ski slope crossings
- No soil sealing
- Noiseless ride
- Disassembly in ski slopes possible
- Proven Lifter system for uphill transport
- Extremely stable, low-maintenance and low-wear sleds

THE SLEDS
- Available in various colors
- Energy absorbing front and rear bumpers
- Backrest for comfort and safety
- Two-sided lever for high braking power and good grip
- Safety package consisting of a lap and three-point belt, seat bumper, a foldable backrest and impact protection
- Additional equipment with rain hood, front light and brake light possible
MANUAL BRAKE
When using the manual brake the maximum stopping distance is 3 m. This outstanding braking performance is achieved via powerful brake pads that embrace the brake tube like a vise. In a different system, the manual brake can be equipped with magnets instead of brake pads. The magnet slows the sled to walking speed using eddy-current.

THE WIEGAND-SELECTIVE BRAKE
The Wiegand Selective Brake is usually installed at the end of the track, to slow riders who are approaching the exit area too fast. The brake system will not engage if riders approach the finish area slowly.

THE WIE-CRUISE BRAKE
The new patented Wie-Cruise Brake is used as a speed restrictor and end-of track brake system. The eddy current system is not affected by weather, which eliminates the need for an anti slip coating on the tubes and the associated wear of the wheels. At the end of the track the sleds are slowed gradually and smoothly to walking speed. With this system the selective brake becomes unnecessary.

WIEGAND STORAGE SYSTEM
- Storage system developed for Alpine Coaster and Twinbob
- Protection from weather and unauthorized use
- Integrated maintenance area
- Electrically controlled lifting device lifts sleds off the track and sleds roll into the storage room on a rail system
- Space-saving storage, vertical and hanging
- One operator can load and unload the sled without physical exertion
- Available in semi-automatic and fully-automatic versions
- Storage circle: compact and flexible solution for storage and magazine
Crossing the ski slope in Les Saisies (France)

Downhill track with Wie-Cruise brake in Hahnenklee (Germany)

Storage circle at the track in Lienz (Austria)

Vehicle storage system in Immenstadt (Germany)

Alpine Coaster with rainhood

Double-deck bridge for crossing the ski slopes in Park City (USA)

Storage circle at the track in Lienz (Austria)

Vehicle storage system in Sátoraljaújhely (Hungary)

SPECIFICATIONS
STORAGE SYSTEM – BRIDGE CROSSINGS – BRAKES
Wiegand Summer Toboggan Runs consist of trough-shaped stainless steel channels in which you ride down to the valley on brakeable sleds. The sleds find the optimal curve track position, so no lateral forces come into play. Deep corners, jumps, curved and straight sections - the track is perfectly adapted to the actual terrain. Bridges across the uphill track are possible, for example, along with circles.

The segments are butt welded, with sliding pieces ensuring room for expansion. Side protection tubes provide stability, serve as protection against derailment and cover the edges. The galvanized substructure rests on adjustable steel support plates, which hug the ground securely. After mounting on a 3 m-wide track, the track is laterally filled with earth.
ADVANTAGES OF THE TROUGH-SHAPED RUN
SUMMER TOBOGGAN RUN

- Fantastic ride experience with high safety standards
- Good value for money, fast payback
- No corrosion, no maintenance, no wear
- Very little need for spare parts
- High transport capacity of 500 pph (double-seater sleds)
- Short braking distances (6 - 10 m)
- Little risk of injury due to smooth surface
- Assembly without foundations (Lifter only)
- Elegant, attractive track layout to suit the site
- On ski slopes (level with the surface)
- Approval by Technical Inspection Authority (TUEV) guaranteed
- Operation in wet conditions possible via the use of wet weather brake shoes

THE SLEDS: both the Twinbob and the classic Summer Toboggan Run sleds with the central lever can accommodate two adults. The Summer Toboggan Runs are equipped with different sleds, depending on the track inclination and specific criteria.

SLIDING VERSION: for steeper slopes with an inclination of between 15 - 50%, because the ideal inclination is 15%. Equipped with two wheels and four runners the light weight allows optimal storage and transport on the chairlift.

ROLLING VERSION: for slopes with a gradient of between 4 and 30%. The average track slope is 7%. A sled with four rubber wheels reaches a top speed of 40 km/h (limited).

THE SLEDS

- Comfort sled, available in different colors
- Comfortable seating for two adults
- Longer and wider chassis guarantees tilt resistance and makes the ride extremely comfortable
- Externally mounted drive and brake levers on both sides
- Energy absorbing front and rear bumpers
- Wet weather operation possible, with wet weather brake shoes
- High back rest for comfortable uphill ride and protection against rear-end collisions
- Optional: back rest, front lights, brake lights

THE BRAKES

- Speed can be limited via centrifugal brakes, which can be installed in all sleds at any time (Standard 40 km/h)
- Manual brake, rubber strips, one lever
- Wet weather brake shoes
- Minimization of collisions with Wiegand brake belt and selective brake system

THE SLEDs

THE TWINBOB

- Comfort sled, available in different colors
- Comfortable seating for two adults
- Longer and wider chassis guarantees tilt resistance and makes the ride extremely comfortable
- Externally mounted drive and brake levers on both sides
- Energy absorbing front and rear bumpers
- Wet weather operation possible, with wet weather brake shoes
- High back rest for comfortable uphill ride and protection against rear-end collisions
- Optional: back rest, front lights, brake lights
The Wiegand Lifter is a transport system specifically developed for the Alpine Coaster and the Summer Toboggan Run (rolling version). It moves the guests automatically from the valley to the top station, the riders remain simply seated on their sleds.

Below the sleds an endless wire rope runs in the stainless steel towing line. The variable speed electric drive of the Lifter can be housed in both the bottom and the top station. The sleds connect on to the rope in the valley, to release automatically in the top station.

- By far the most economical solution for the uphill transportation of sleds and passengers
- With the Lifter your toboggan run is completely independent of ski lifts and cable cars, at the optimal location
- Amazingly inexpensive
- No need for additional operating staff
- Transport capacity of over 500 people per hour
- Good integration into the landscape without unsightly lift masts and superstructures
- Observation of the remote station via security camera
- Electrical safety loop to monitor the cable guide
- Frequency converter enables infinitely variable speed control
- Backstops in the sled wheels and anti-reverse blockers in the towing line prevent rollback of sleds

Existing ski lifts are easily adapted to carry riders to the start of the toboggan run.

Advantages of the draglift track:
- Transport capacity of 500 persons per hour and more
- The existing system can be used (facilitates the planning/licensing process)
- The draglift track can remain in place in winter – minimal conversion costs when changing from winter to summer operation
- Toboggans disengage automatically at the top of the lift
- Closed circuit operation is possible where riders face forward on the lift
- Stainless steel construction: trouble-free for decades
The riders are pulled up facing forwards on gradients up to 30 %. They face downhill on steeper tracks. (All sliding toboggans are towed backwards – the riders face downhill).

A further possibility for uphill transport is the use of an existing chairlift.

Advantages of the chairlift:
- No additional investment necessary
- Chairlift is also used in the summer
The toboggans can be hooked directly onto the seats by hand, although this solution is labor-intensive.

As an inexpensive alternative we offer the Wiegand Sled Transport System with an independent lift system which carries the sleds uphill from the lower station and stores them at the mountain top station.

Under appropriate conditions, the sleds can be hung by the seat and subsequently disengaged, with the aid of the Wiegand coupling system.
We will be happy to send you our specialist brochures. For more information about our water slides please contact Wiegand Maelzer GmbH: Tel. +49 (0) 8151 971 330 or www.wiegand-maelzer.de