



**KRISTALL  
TURM®**  
LEISURE-, SPORTS-  
& PLAY ELEMENTS





## TEAM BUILDING --- 4

- Individual team building elements
- Team building on the low rope course



## FITNESS --- 8

- Fitness equipment
- Ninja parcours
- Training ladders



## PLAYGROUND --- 14

- Swings, zip line, play towers & play houses, climbing frames, seesaw
- Custom play equipment
- Wooden animals, netting course, adventure trail



## CLIMBING AND BOULDERING --- 30

- Climbing walls
- Bouldering walls



## EVENT --- 32

- Climbing tree
- Mobile zip line



## ACCESSORIES --- 34

- Seating
- Information boards, signage
- Pavilion



Tree house, Hussnhof Sachsenkam, Germany

# ABOUT US

The company KristallTurm® was founded in the year 2010. Since then the company located in Lenggries, Upper Bavaria has been growing steadily thanks to orders in Germany and from all over the world. The hexagonal shape of an ice crystal gives KristallTurm® its name and is also reflected in the basic shape of the rope courses.

Over the years the product range has steadily extended, so that we offer numerous recreation, play and sports products in addition to high rope courses today.

Rooted in traditional craftsmanship, KristallTurm® is a company that stands for precision work and the highest quality – not only in materials, but also in the production process and customer service. Our products are fabricated in our own workshop that combines the various trades in the carpentry, locksmith's shop and station construction department.

The custom design of the individual elements according to a theme within an overall concept is one of our strengths.

Since we now serve the global market, we have developed a network of international distribution partners. Thus a local contact is available in the regional markets as well.

• QUALITY •



DESIGNED & MADE IN GERMANY



# OUR MATERIALS

## ROPES

Hercules and polyester ropes are highly tear-resistant and UV-resistant. We use them for our nets and rope games in a variety of colours.



## ROBINIA

Robinia wood is extremely rot-resistant with tremendous strength that considerably exceeds that of oak. The wood of the robinia is heavy and hard, difficult to split, tough and elastic, and extremely impermeable to liquids. Robinia remains in good condition after decades of use, especially also in contact with the ground.

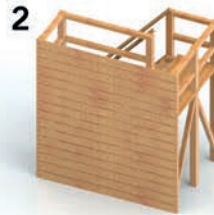
## LARCH

Larch is the heaviest and hardest European coniferous wood used in construction. It is particularly resistant to water and rot, and therefore weatherproof.





# TEAM BUILDING ELEMENTS



## 1 SPIDER WEB

The group has to pass through the web without touching it. By specifying different opening sizes, the trainer can increase the level of difficulty.

## 2 WOOD WALL

Overcoming the wood wall with a height of approximately 3.50 metres is only possible with mutual support within the group.

## 3 TRUST FALL

With this exercise, a participant lets themselves fall backwards, to be caught by the other team members.

## 4 SEESAW

Playing on the seesaw is a good way to warm up and “break the ice” between the participants.

## 5 WHALE WATCH

The Whale Watch is a special, large seesaw.

Team stations encompass various elements that help develop collaboration, communication and trust within a team. The participants can only overcome the stations if they help each other and coordinate their efforts. This strengthens the team spirit outside the familiar environment. Typical roles are discarded.

The team stations are mainly intended for companies and schools that want to offer a special experience for their employees or students. There are no limits on creativity in the course of construction. We supply a manual for each team building element, describing some team exercises. Basic training for your personnel can also be provided.

- Team building elements are a good complement to a high rope course.
- Team building elements that can be integrated into the high rope course, such as Jacob's Ladder and the Pamper Pole, are found in the KristallTurm® high rope course catalogue.

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## 6 ZIG-ZAG

All participants have to overcome all tree stumps, from the first to the last. The group is given fewer beams than the number of gaps to overcome.

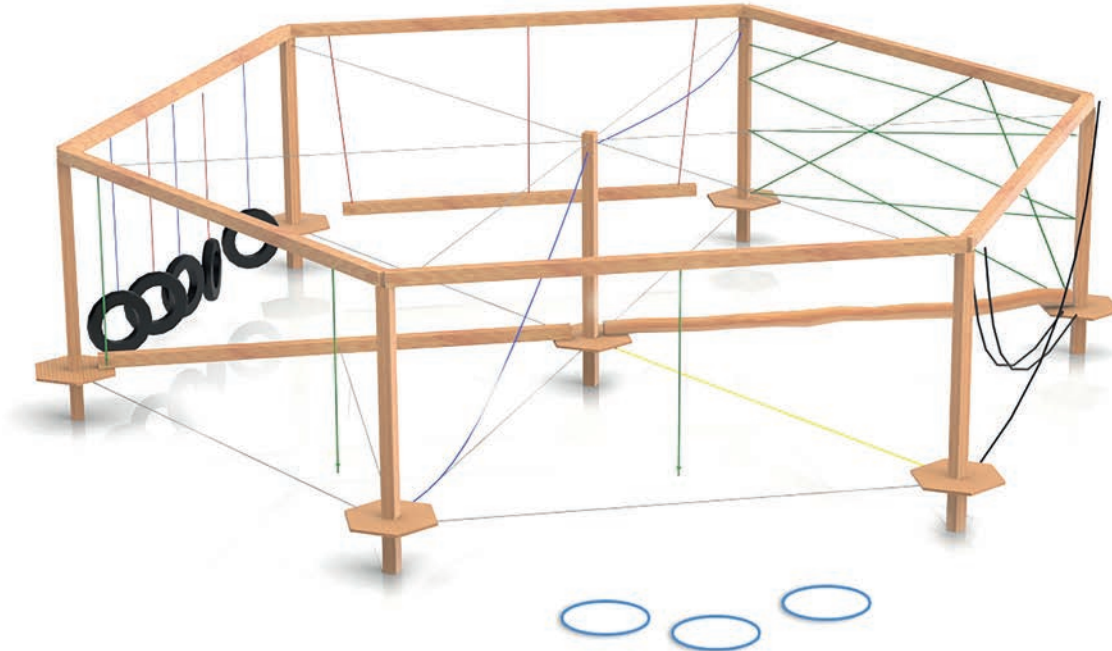
## TEAM BUILDING GAMES

The box contains utensils for numerous small, simple team building games that do not require any fixed installations. Familiar team games such as Code Breaker, Magic Wand, Acid Pond, Team Knot and more can be played with the materials.





## TEAM BUILDING ON THE LOW ROPE COURSE

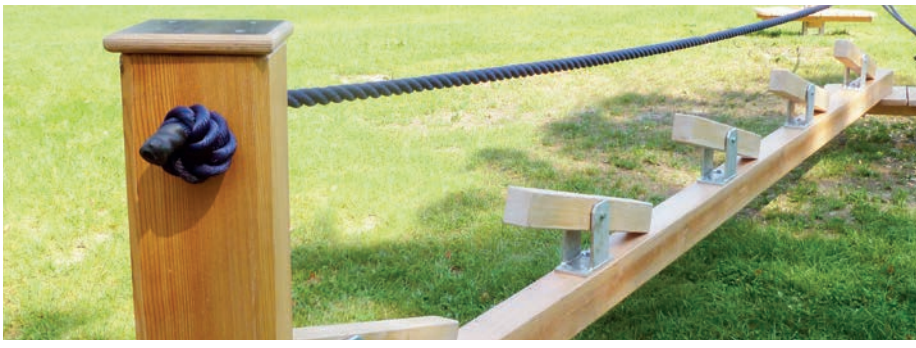


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The KristallTurm® team building low rope course includes various stations arranged in the shape of an ice crystal just like the high rope courses. Unlike the high rope course, visitors do not require fall protection on the low rope course since the elements and platforms are installed at a safe jumping height of 30 – 100 cm above ground level.

The KristallTurm® team building low rope course offers space for exercises such as Low-V, Spider Web, Mohawk Walk (in many variations), Nitro Crossing and more, without taking up a lot of space. With a total footprint of about 15 m x 13 m (including falling space), it is suitable for confined areas as well. The elements can also be arranged lengthwise or to suit the plot when needed.





## TECHNICAL DATA

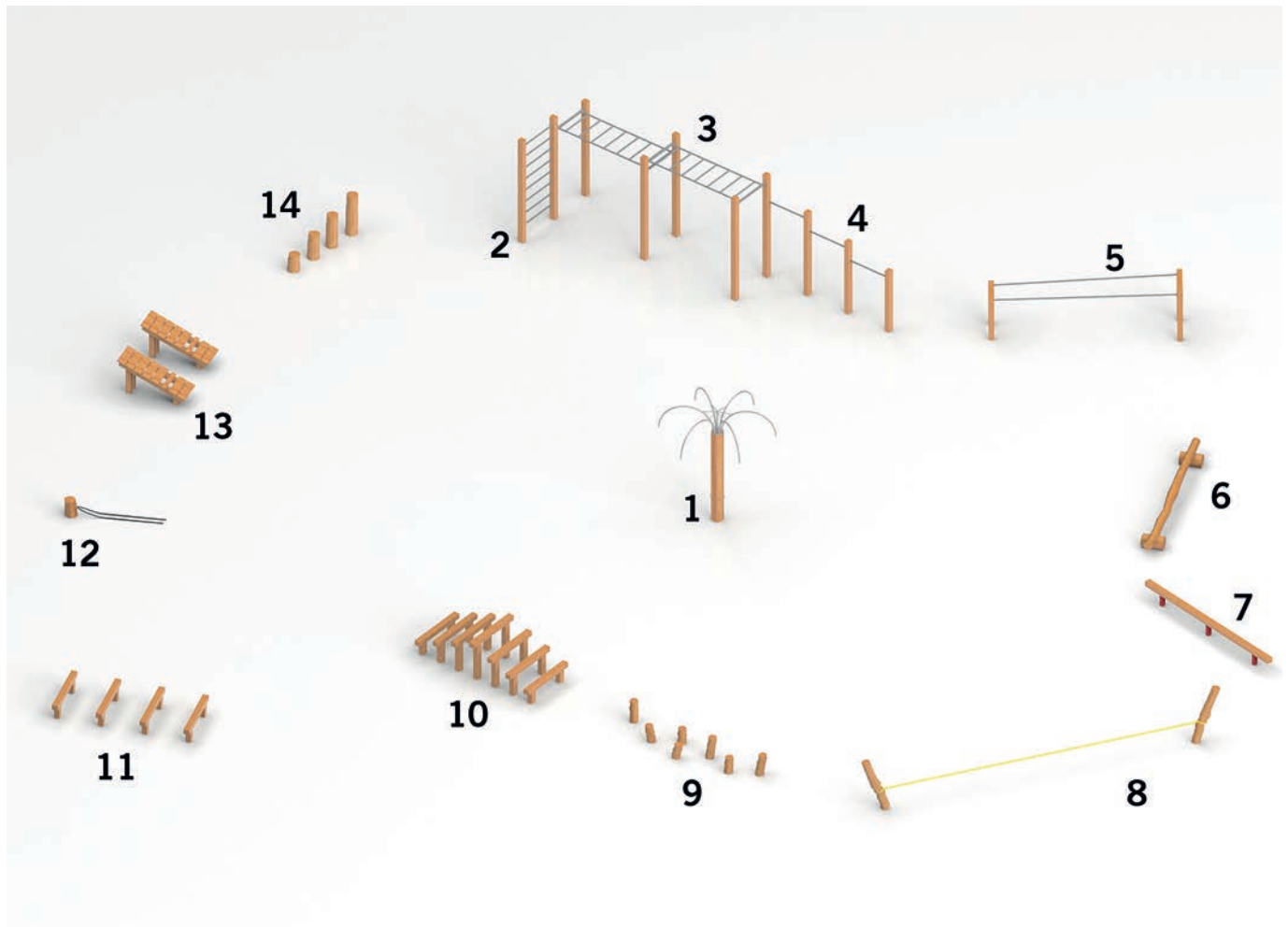
- Base structure dimensions: 13 m x 11 m
- Dimensions with falling space: 15 m x 13 m
- 12 stations

We supply a manual for the low rope course, describing some team building exercises. Basic training for your personnel can be gladly provided as well.





# FITNESS EQUIPMENT



The KristallTurm® fitness course offers training equipment of all kinds for strength, coordination, mobility and endurance. Varied circle training is also possible with the equipment. Individual elements can be combined as desired in order to meet a wide variety of needs.

With or without a trainer – the fitness equipment contrasts with conventional devices and can be installed indoors or outdoors. KristallTurm® fitness equipment is also particularly well suited for public spaces thanks to its robust construction.

- Bouldering walls can be integrated into a fitness course as well.
- Nearby playgrounds expand the exercise possibilities for a larger group of users.

## 1 PALM TREE

Robust palm-shaped mast for the simultaneous use of up to 6 training bands.

## 2 WALL BARS

The wall bars can be used for climbing exercises and also for abdomen, leg and body tightening.

## 3 MONKEY BARS

The monkey bars are versatile for upper body and coordination training.

## 4 HORIZONTAL BARS

Horizontal bars can be implemented in different ways to meet a variety of size and training needs.

## 5 PARALLEL BARS

Varying heights and widths of the bars offer suitable support points for any body size.

## 6 - 9 BALANCE

The simple balance beam **(6)** is not only suitable for balance exercises, but also for jumping training and more. This applies correspondingly to the spring beam **(7)**, but it requires greater skill.

The Slackline **(8)** is the most challenging version. The tree stump run **(9)** demands balance and concentration.

## 10 HURDLE STAIRS

The hurdle stairs are used for balance training and to strengthen the leg musculature.

## 11 HURDLES

The hurdles can be used for coordination and endurance training.

## 12 BATTLE ROPE

A heavy rope is attached to a massive tree stump. It is used for upper body and stability training.

## 13 BACK LIFT

The legs can be secured in the slots provided. Then the upper body has to be lowered and raised from the prone position.

## 14 RISERS / JUMPS

The tree stumps in different heights are suitable for climbing and jumping exercises.





# MOBILE TRAINING LADDERS



We developed the mobile training ladders in cooperation with health trainer Joachim Schlobben. They are universal in application and can be built up virtually anywhere. The ladders can be set up in different versions using various connecting pieces. This makes more than 30 exercise variants possible depending on the construction. The training ladders are especially well suited for companies, public institutions, sports clubs and fitness chains. They are intended to provide balance in day-to-day life on the one hand, and may also be used for incentives or other group events. The arrangement of the ladders can be varied according to the requirements, thereby supporting combination training with aids such as ropes, rings or weights and forming a mix of functional training, cross fit and ninja warrior elements. Use under the instruction of licensed trainers is recommended.



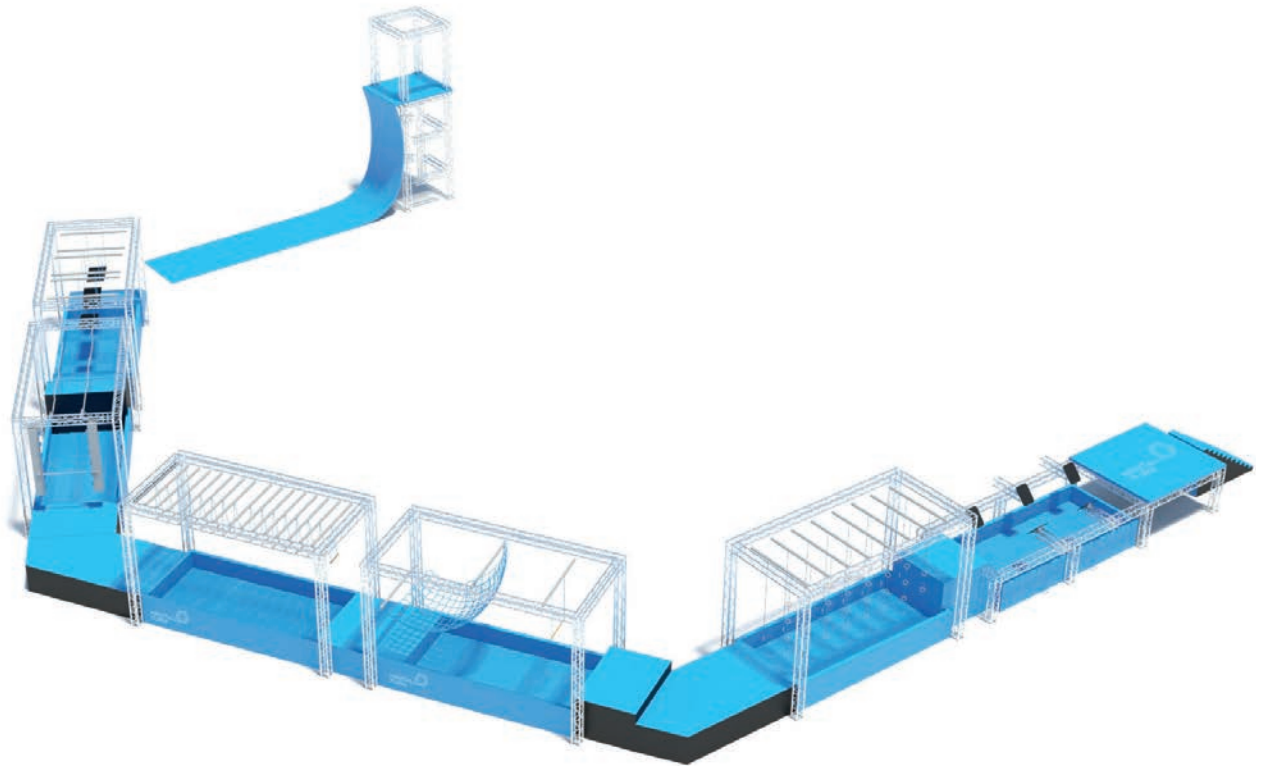
## TECHNICAL DATA

- Ladder length: 3 m
- More than 30 exercise versions – no limits on the imagination
- Versatile system consisting of 5 base elements
- Easy handling

We include detailed setup instructions with the training ladders. Training units with educated trainers can be booked as well.

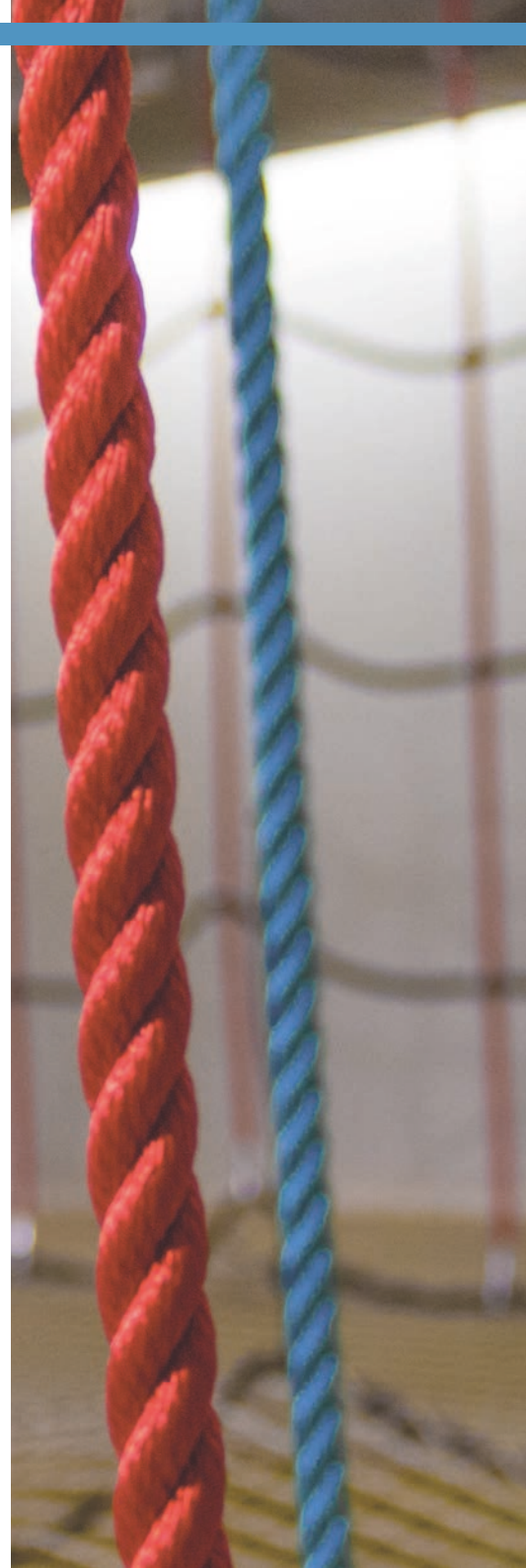
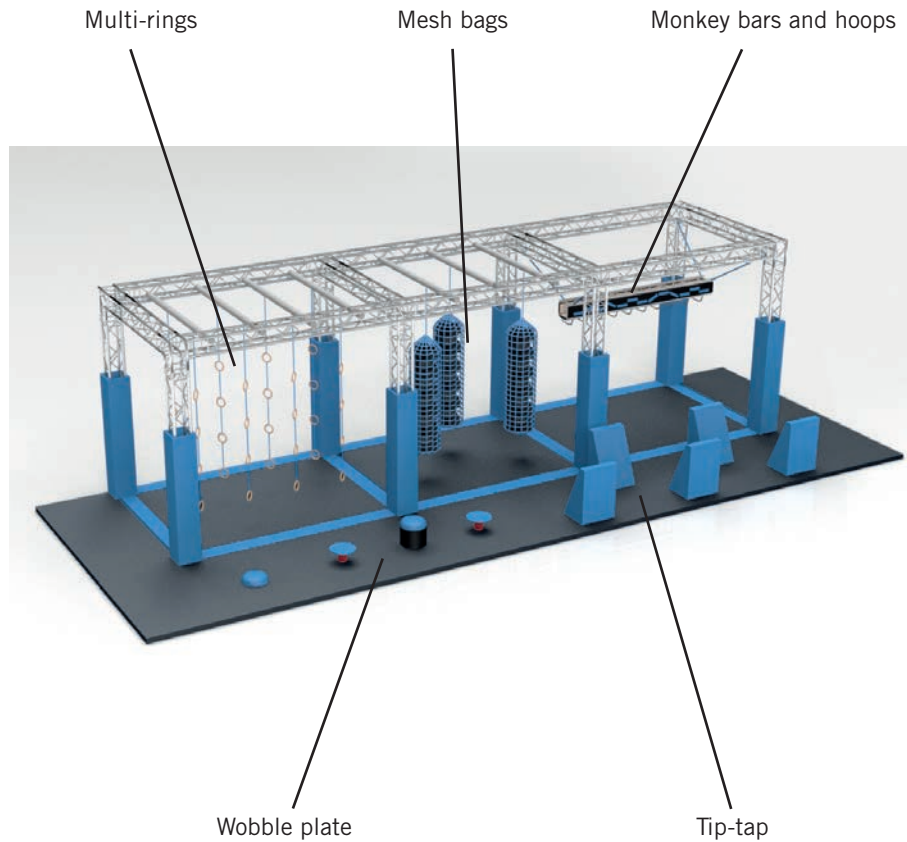


# NINJA PARCOURS



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Obstacle courses have gained favour among the general public thanks to the popularity of various television shows. The ninja parcours combines running, jumping, swinging, climbing and balancing, thereby offering both training and enjoyment. It can be set up for use by children or athletes depending on the requirements, for example complementing existing fitness facilities with a universal exercise offering. The ninja parcours is ideal for child amusement halls as well: it really lets children blow off steam. As a mobile system, the ninja parcours can be used for spectacular events and competitions. The obstacles are easy to exchange so that varied new challenges can always be created.



## NINJA PARCOURS FOR CHILDREN

The ninja parcours for children can serve as a complement to existing indoor play facilities for kids, sports centres or trampoline facilities. The sample plan illustrated above consists of 2 parallel lanes with a total of 5 stations.

With dimensions of 13.5 x 5 x 3 m, the course is extremely compact. The falling area is covered in thin fall protection mats, while impact protection mats are installed on the framework.



# PLAYGROUND EQUIPMENT

We offer a large selection of creative, innovative and sophisticated playground equipment for all age groups from infants to teenagers. We place special emphasis on quality and on meeting the highest safety standards for the equipment. Our play equipment is made primarily from natural materials such as robinia and larch wood as well as steel, complemented by UV-resistant, durable polyester rope and Hercules rope. We plan and implement our equipment according to the European EN 1176 standard. Thus it meets the requirements for public facilities.

A wide variety of facilities such as restaurants, swimming pools, parks, day care centres and schools benefit from playgrounds. We place special emphasis on child friendliness, especially in the design of play elements.

- Bouldering walls are an ideal addition to playgrounds.
- Nearby fitness facilities expand the exercise possibilities for a larger group of users.







Climbing frame, Jahnschule Bad Tölz, Germany



# SWINGS



Swings are one of the most popular elements and therefore a must for every playground. They improve coordination, making them important for the development of children.

The drawings show examples of swing frame implementation versions: single swing, nest swing, double swing, double swing with climbing rope etc. Links to play towers, slides and climbing frames can be realised as well. There are no limits on the imagination for the combination possibilities with other equipment.

# ZIP LINE



The zip line is a ropeway for playgrounds that really packs some action. Even the youngest aged 3 years and up can experience the feeling of flying.

The ropeway is stretched between two sturdy locust wood frames on a length of 20 to 30 m. The starting ramp can be made of larch wood or a natural mound of earth.





**THOMAS**





# PLAY TOWERS & PLAY HOUSES



Climbing up, sliding down, swinging, rocking or jumping – all of this is possible with the play tower. For our play towers, we use numerous play elements to provide access to the tower. We can integrate anything from ladders and climbing walls to ramps. A fire pole, slide or zip line are examples of possible ways to go down. Towers are an excellent basis for swing frames, making them ideal for combining multiple elements.

Play houses are especially well suited for young children because they are not very high off the ground. Their appeal is that children can hide or sit inside them. When play houses are designed according to a certain theme, such as a shop, chicken coop, or cowboys and indians, children can enter a fantasy world with particular ease. That tremendously increases the play value and enjoyment.



# CLIMBING FRAMES

Climbing frames are universal play equipment that encourage children to make a wide variety of movements. There are no limits on imaginative play.

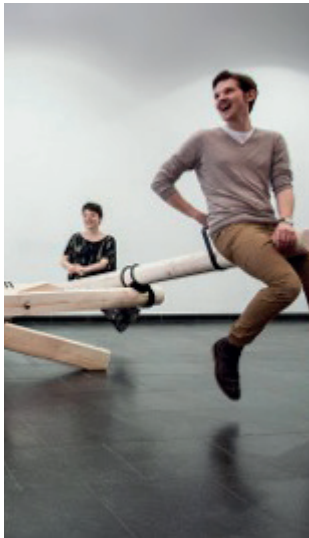
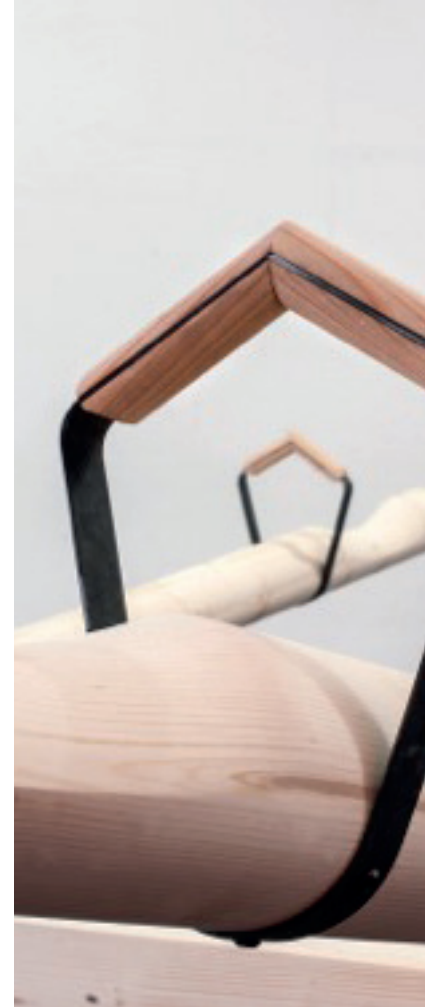
We build our climbing frames using naturally grown locust logs, giving them an organic appearance.

Nets and ropes in various colours complete the overall appearance. Small platforms, slides or swings can also be combined with the climbing frame. Even the smallest frames offer plenty of variety while taking up little space. Large installations with space for many children to play at the same time enrich facilities such as school yards or highly frequented public playgrounds.





# SEESAW



## SEESAW ENSEMBLE

The seesaw ensemble is an innovative, designer seesaw for 2 or 4 persons who can use it at the same time. It promotes balance and teamwork with its unusual design. The four seesaw arms are linked to each other so that the two persons sitting diagonally across from each other are always in the air or on the ground.





Schalber Alm playground, Serfaus, Austria



# CUSTOM PLAYGROUNDS



## PLAYGROUND EQUIPMENT

From play houses to rope games to climbing towers – our creative minds individually plan every playground and all play equipment. We adapt each playground to its environment in close coordination with our customers. That is the best way to develop a creative play space that meets the needs of children and adult customers alike while taking local conditions into account. We usually attempt to adapt rope course elements as play equipment to encourage children to engage in a variety of motion sequences. Thus unusual compositions are always being created, making your playground something special. By request we design play areas according to various themes such as a pirate ship, forest or fairy tale.



## 1 PROJECT START

- Inspection of the site by our project manager on location or based on photos and plans
- Establishment of the key data: space, budget, time frame, target group

## 2 CONCEPT

- Gathering ideas in cooperation with the design department
- Varied and age-appropriate play value
- Efficient use of space
- Ultimate safety

## 3 DESIGN

- Development and presentation of initial visual proposals
- Submission of an overview sketch or technical drawing

## 4 IMPLEMENTATION

- Construction of the play equipment by hand in our own workshops
- Installation on site by our team
- TÜV acceptance if needed



## WOODEN ANIMALS



Wooden animals are a great complement for playgrounds and an ideal place for children and parents to sit. Various animals can be designed depending on the topic, for example to represent an African desert landscape or a farm. Horses are especially popular with young children but deer, donkeys or zebras also quicken the imagination.

# NET COURSE



The net course is the ideal solution for using tall rooms effectively. They allow the play area to be divided into several levels, thereby offering space for more children at the same time. Safety nets are installed as fall protection a short distance below the rope course elements. The stations can be designed according to themes, as with the high rope course. Play towers with climbing walls and slides or existing galleries for example can serve as entrances and exits.



## ADVENTURE TRAIL



The adventure trail is a low rope course for playing. Several balance and climbing elements are combined into a course, offering variety compared to conventional, individual play equipment. All conceivable elements can be integrated into the course, for example also climbing elements from our high rope courses. The stations can be used individually, or the entire course can be completed as a whole. Low rope courses are especially well suited for school yards because they offer space for many children at the same time.



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## POPULAR ELEMENTS:

- Climbing nets
- Various balance stations
- Monkey bars
- Wall bars
- Ropes to swing on
- Rocking bridges





## CLIMBING & BOULDERING WALLS





We offer climbing and bouldering walls in different versions for indoor and outdoor installation. They can be mounted on existing walls or planned as free-standing installations. Various materials and colours can be chosen for the concept. The walls can even be designed according to a theme, for example by painting the climbing surface with the motive of your choice. Our climbing walls and bouldering walls are usually made of sanded multiplex boards. We also make them of glass fibre reinforced plastic (GFRP) with a rock texture on request. Here the wall texture offers added support in addition to the handholds.

The prefabricated grid makes changing the routes quick and simple. New, exciting challenges can therefore be configured at any time. The degree of difficulty for the routes is identified by handholds of different colours.

- Climbing and bouldering walls are suitable for expanding existing facilities such as sports halls or playgrounds.
- Bouldering walls are an addition to our fitness facilities with a variety of applications.

## BOULDERING

With bouldering one climbs to a safe jumping height with a maximum of 3.5 - 4 m without a rope and harness. Thick foam mats or fall protection gravel for outdoor installations cushion the landing on the ground.

## BELAY TYPES FOR CLIMBING WALLS

### TOPPAS automatic belay

The TOPPAS is equipped with a self-regulating braking system that lowers the climber gently regardless of the weight. Thus no climbing partner is needed.

### Top rope

With top rope climbing, the belay rope is already firmly attached at the end of the route. The climber is secured by a partner on the ground. This requires detailed instruction.

### Lead climbing

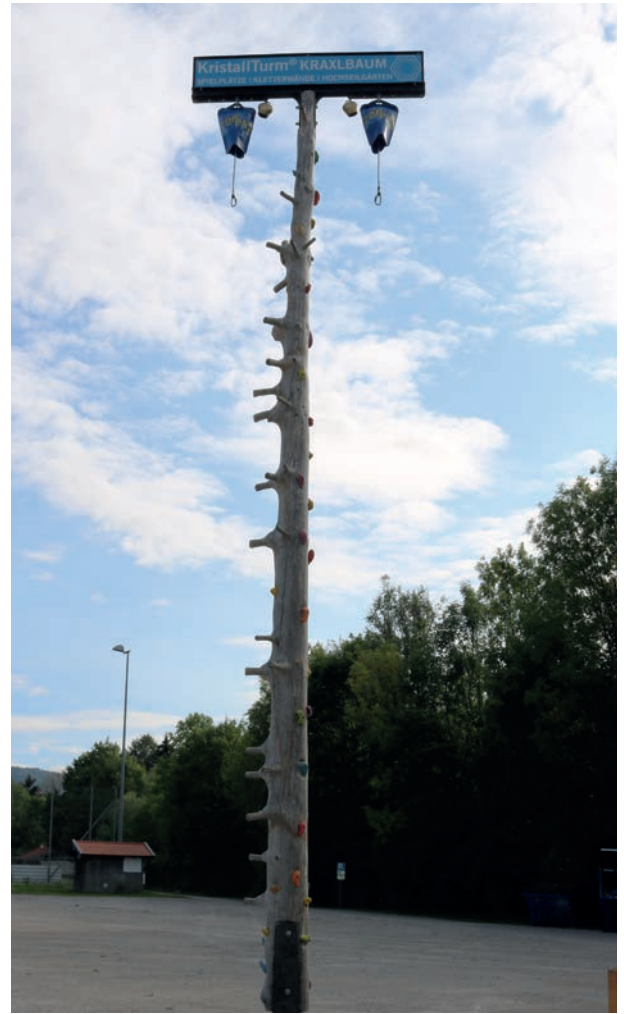
With lead climbing, the climber has to engage the rope independently on intermediate belays while being secured by a partner on the ground. This requires climbing experience.

We are happy to assist you with choosing a suitable belay system.





## CLIMBING TREE



The climbing tree is especially popular among the youngest. It is excellent for “competitions” (who can reach the top faster?). At festivals and events, it is an easy to manage highlight for all children.

The climbing tree is a naturally grown tree trunk with a height of about 10 m. Existing, natural branches serve as hand and footholds on one side, while artificial handholds are installed on the other side. Climbers are secured by automatic belays.

# MOBILE ZIP LINE



We have designed a special mobile zip line solution for events. It has been used at numerous events already, and is an absolute highlight especially for children and adolescents.

## RELEVANT DATA

- Length variable from about 80 to 100 m
- Height about 8 to 10 m
- Accessed with a ladder
- Water tanks as counterweights



# ACCESSORIES



Our accessories round out the concept and complete your system with useful elements. We fabricate suitable equipment for your recreational facility. Various designs and implementations are possible:

## SEATING

Benches and tables for groups and individuals, in wood and steel.

## INFORMATION BOARDS/SIGNAGE

Frames for your information signs or information boards on theme trails.





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## PAVILION

The pavilion can be used in a variety of ways. It can be built in different versions according to the requirements and protects against wind and weather:

- Roof only
- Roofed floor platform
- Fully or partly enclosed side walls
- Roofed BBQ area
- Roofed bouldering hut



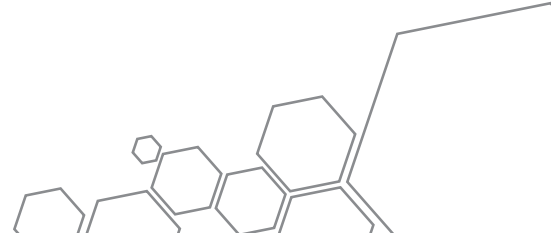


## KRISTALLTURM® HIGH ROPE COURSES

Information about our high rope courses is found in the [KristallTurm® high rope course catalogue](#).

Our unique design makes the KristallTurm® high rope courses a special attraction. The systems can be installed indoors or outdoors and are suitable for all sites, especially also for urban spaces. We adapt the KristallTurm® high rope course to your individual circumstances.

Visit our website at [www.kristallturm.com](http://www.kristallturm.com)





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