



Excellence in Zip line.

The only limit is your imagination.

A great story

always begins with a journey.

2005

On a trip to Costa Rica we discovered the Zip line, an adrenaline-filled experience immersed in the wilderness. Since there we understood that we should realize that fantastic experience in Italy.

2013

The first Zip line park ever built using the cableway people mover standards is inaugurated in Germany. Alpspitzbahn is the first client that we follow.

2008

The biggest Zip line park in Europe is inaugurated, equipped with the first self-braking magnetic trolley in the world. The Adrenaline X-Treme Adventure Park is our entertainment milestone. Surrounded by nature and the spectacular landscape of the Italian Dolomites.

2016

Adrenaline Constructions begins to expand building the first non-EU Zip line in Rawabi, Palestine. It was the **longest Zip line in Middle East.**

2018

The longest Zip line overflying over a cruise ship is inaugurated for the MSC.

2019

After years of development and patented registrations, the most compact self adjustment braking silent trolley is brought to life, the **Magnetic Trolley 3.0**. A higher safety level standards is achieved.

2020

The new Start System 3.0 revolutionizes the concept of safety. Human error is eliminated during docking. Klausberg, in Italy, is the first Zip line system to be equipped with such a device.



A decade of technology and design improvement brought Adrenaline Constructions to be the worldwide leader of Zip line systems.

New technologies are being developed to further revolutionize the Zip line world.

Start your Zip line project.

• It is an electrifying experience with a growing market response. • It is built according to the **highest** safety standards. It has a minimum environmental impact.

It is an economic opportunity

- Low operating costs.
- Great Media impact.
- Midest fix costs.

What is a Zip line

A Zip line is a cable stretched between two different altitude points.

Gravity is the only engine. Harnessed riders feel the primordial thrill of flight.

It is an attraction. It is an amusement park. It is a business.

Why invest in a **Zip line project?**

• Excellent return of investment.

Ski area

Skiing is amazing! Sliding down snowy slopes is the best way to live the winter. But, why not take feet off the ground?

Nature

Close your eyes. Breath. Feel the wind. Open your eyes. Watch the wild world from above.

A natural park is the best place to escape from the frenetic life. Live it all!

Events

A Zip line is a striking experience that perfectly attracts attention of public and media. It is a perfect for a business presentations, product launches, concerts and sport events.

Theme parks and cruises

Are you a Theme Park owner? Are you a Cruise Ship manager? Are you in search of a place made for fun and adventure?

The Zipline is an attraction that brings the experience to another level.

Urban

Live the city. Book your experience in and relive the adrenaline- filled moments over a drink with your friends. Does it sound tempting to you?



Choose your location.

Build it almost everywhere!

All you need are two anchor points, advanced technology and creativity.

KEY STRENGTHS

- all seasons activity
- overall turnover increased
- improved brand recognition

KEY STRENGTHS

- tourist arrivals increasing
- new target audience
- minimum enviromental impact

KEY STRENGTHS

- brand visibility
- more guests entertainment
- easy to install and remove



KEY STRENGTHS

- broadened offer
- stand out from competitors
- overall turnover increased

KEY STRENGTHS

- tourist arrivals increasing
- expands the city offer
- overall turnover increased

Ready for any environment.

Every location is a challenge.

Each structure is customised according to the customer's needs and site configuration.

Temporary

Mobile structures can be set up easily for temporary events.



Permanent

A wide range of materials is deployed, based on the context in which the building is inserted.

Artificial structures

A Zip line can be safely built on man-made sites. Cruises, skyscrapers and stadiums, our structures are adapted perfectly to every situation.



Safety

Every station is tested and certified for every situation.



Site inspection



Adrenaline makes a **survey of the Zip line site** using the most advanced technology.

Orthophotos, topographical maps, context photos, are the first elements we come in contact with. When **the site investigation is planned**, obstacles are recognized and measured live.

Combining both geospatial and on-site measurments, the **Feasibility Study** it is made to allows you to assess and get to know your Zip line project in depth. The cost at this stage is minimal and it is deduced from **the final project** investment.

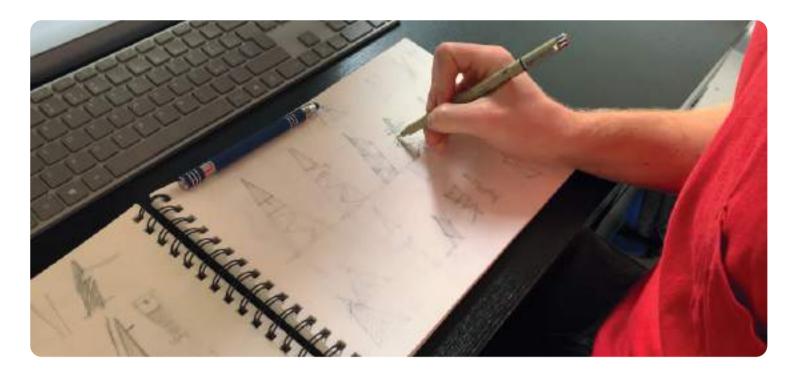


Services.

Turnkey Zip line with Adrenaline.

We take care of every step. Our work is internationally certified.





Planning and design



Every detail is taken into account by our sector specialized professional team.

Precise **planning means saving time and money.** Most of the problems that arise during the Zip line system construction are identified in advance.

Our philosophy is based on offering a highly technological Zip line with a unique and **customized design**, defined according to customer requirements, context and our experience.

Every architectural and engineering aspect is studied into the dept. **Integration with the landscape** is our duty.

Construction



Our goals? Efficiency and speed.

Each professional figure works closely with Adrenaline's central office, to ensure the highest quality standards during the installation. The **most advanced machinery and equipment** are used to guarantee **safety** at every step.

We take care of **executive design, transport and installation on site of the Zip line components**. Structures are pre-assempled to optimize the time spent on site.



Maintenance



The Zip line system is designed to resist wear and tear and this **minimize running costs**.

Ordinary maintenance is easy thanks to the effective design defined by our developers.





Services provided

- Manuals with all the information needed;
- Personally handled extraordinary maintenance;
- **Real-time remote tele-assistance**, anywhere, anytime. The use of the system is constantly monitorated;
- A wide range of extra features for increasing efficiency and lowering costs;
- **The tensioning kit**, allows the cables to be adjusted independently and effortlessly.
- **Spare parts** are made directly in our workshop. Replacement times are fast.



Staff training



The training covers:

• Zip line ordinary management

Staff learn to manage the correct sequence of flight operations and the riders during all the experience.

• Emergency procedure

Operators are trained to know how to act in any situation.

On-site assistance*

During the initial period of the installation our trainers assist the operators for the ordinary management.

* on request

Cable inspections

We select the best cables on the market to ensure the unchanging of characteristics of the Zip line over time. Wear and tear is tested using our magnetic-inductive system.

It's easy and quick to check the integrity of the trads thanks to the 20.000 points per second detecting device. All data is processed and sent to the lab in real-time.

This system is totally reliable and ensures safety while reducing the time required for inspection and certification.







Testing and certification



Our Zip lines are tested and certified by worldwide recognised certification bodies to ensure maximum safety in full compliance with legal requirements.

We constantly date with the following management systems:

- Quality **ISO 9001**
- Enviroment ISO 14001
- Health and Safety ISO 45001

Adrenaline is certified SOA OS31 III-BIS.

Procedure Certifications



ERGO is an Italian body that provides companies with control, verification and certification services for management systems (Quality, Health and Safety, Environment), accredited by ACCREDIA, the Italian Accreditation Body for the SGQ scheme, UNI CEI EN ISO/IEC 17021 standard.

ISO Stars EU, s.r.o. operates as an

provides comprehensive services

accredited certification company. It

in the field of auditing management systems, awards management system certificates, offer integrated audits and also provide various







The SOA certificate attests that Adrenaline Constructions is qualified to participate in public tenders

professional trainings.



IFT STUTTGART

Institute for mechanical handling and logistics, part of the University of Stuttgart.



RINA

To satisfy all requirements for or those who aim to the certification of Zipline operating in marine environments, Adrenaline collaborates with the RINA, a classifier operating in the naval field.

Elements.

Having fun in maximum safety.

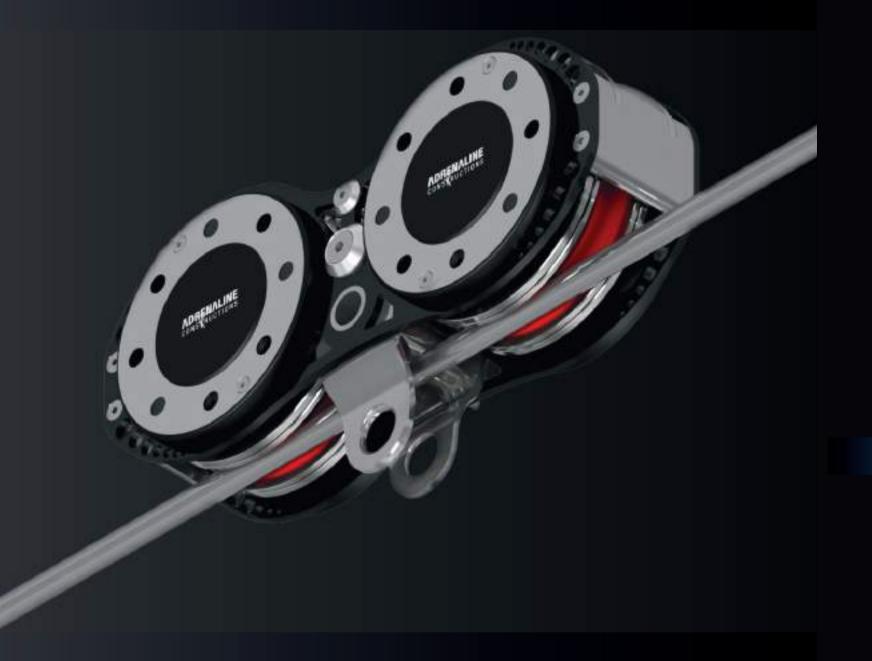
We took care of every detail. Our experience is your experience. The components are designed, developed, tested and produced by our company.

Each one complies with EU and International Standards.

Our technology is constantly developing and improving.

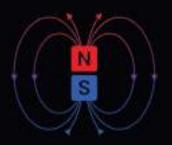
How it's





Magnetic Trolley 3.0

A step forward in the Zip line technology.



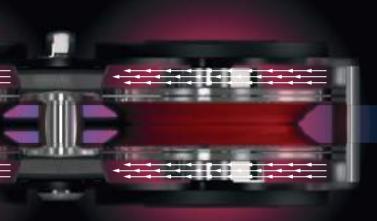
Magnetic Trolley 3.0 uses magneto-inductive braking technology. The descent speed is self-regulating, there is no friction and therefore the internal mechanical wear and tear of the components is drastically reduced.

No human error.

The manual setting of the brake is removed.

The system is totally autonomuos.

position.



Smooth braking.

Participants are braked gradually. When the speed increases, the internal discs move closer to the magnets, braking the descent. When it decreases, they slowly return to their initial

Increase efficiency.

Save time and money. This is a one-size-fits-all solution for children and adults of all weights.

There is no need to waste time choosing the right device or to regulate it.

Enjoy the silence.

High-strength polymer pulleys combined with speed-regulated self-braking magnets reduce the sliding noise.

The flight takes place in total discretion, without worrying about disturbing those around you. The sound produced is less than 45 db, like a fan. The 97% lower than a standard trolley.

The rubberized pulleys **absorb any vibrations** that may be generated. Flying has never been so smooth.

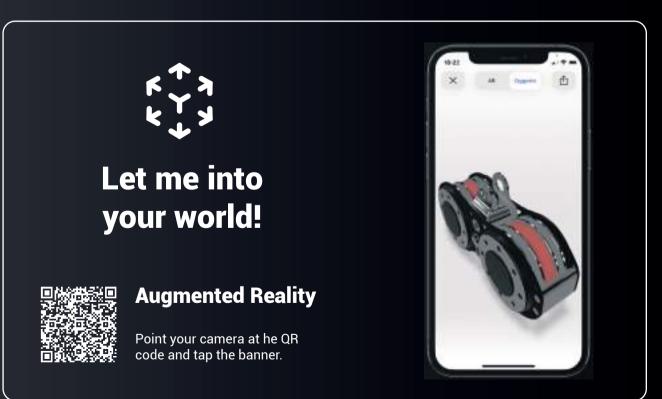
In addition to other pulleys, the self-adjusting magnetic brake allows autonomous adaptation to the participant's descent speed. There is no abrupt braking, too slow or uncontrolled flight.



No trembling.







Color

Load capacity

Dimensions & weight

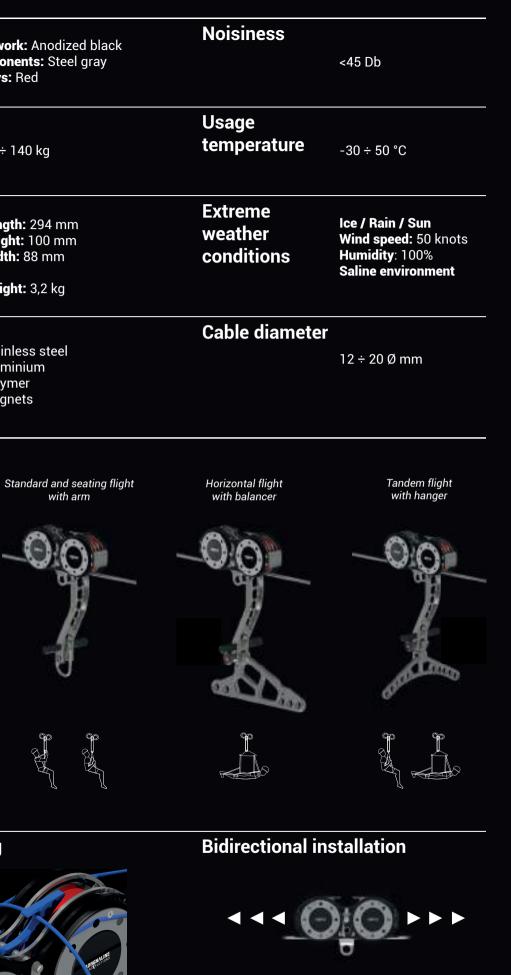
Materials

Polymer Magnets

Flight mode

Standard flight with carabiner





Ser B

Automatic hooking





Start System 3.0

100% safe departure.

Start System 3.0 is the device that allows the customers to start the flight on the Zip line in complete safety.

Thanks to the *Safety Monitoring System*, the departure can only take place when the rope is free and the brake is in position. The innovative architecture constrains the positioning of the pulley in the provided space.



Scan it for 3D view

Safety Monitoring System

Twin Safe automatically connects the safety devices of the departure and landing stations to each other by processing the internal data from a central computer. This **centralized system** is flexible and easily adaptable to the different technical specifications present in each project. Each Zip line is controlled by a Twin Safety, which in turn communicates with any parallel lines. This function allows you to manage multiple runs at the same time from the same control point.

Start versability

Thanks to the centralized control by using a **single push-button panel**, it is possible to have a single launch or a **simultaneous launches**.

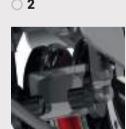
Flight adaptability

The Start System 3.0 allows the standard flight as well as the horizontal flight.









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Electronic actuator

Automated release pin

Ready position sensors

The sensors verifies that the hook is connected correctly to the release pin.

for automatic launch Small sized, guarantees high ride

Small sized, guarantees high rides rate, zero maintenance and a 100% safe departure thanks to the Twin Safe system.

An automated release pin holds the trolley in its position until the green light appears, this indicates the start possibility. Dimensions & weight

Features

Start System 3.0

Material

Noisiness

Usage temperature

Extreme weather conditions

Cable diameter

Maximum slope

Length: 1698 mm Height: 289 mm Width: 212 mm Weight: 35 kg

Stainless steel / Alluminum

<5 Db

-30 ÷ 50 °C

Ice Rain Wind speed: 50 knots Humidity: 100% Saline environment

12 ÷ 20 Ø mm

50%

DBS 2.0 Dynamic Braking System

수 가 Augmented 는 거 Reality



Scan it for 3D view

Gradual braking for maximal fun.

DBS 2.0 is Zip line's end-of-line brake. Thanks to a system of winches and drums controlled by a motor, it intercepts the customer's descent on the rope, ahooks the trolley and retrieves it towards the landing. The DBS recovers and re-arms itself fully automatically in efficiency. It communicates in real time via the *Twin Safe* monitoring system with the other components of the Zip line.





Dynamic Brake

Dynamic brake depending on the speed of the trolley hooked to the bumper.



Emergency brake

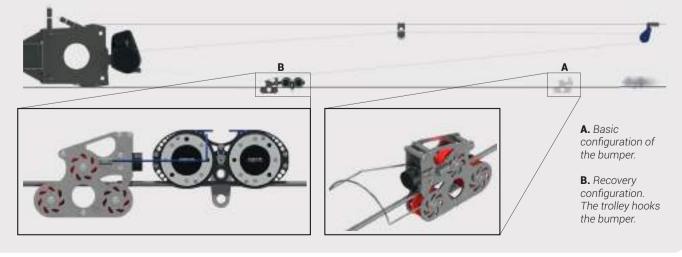
DBS is equipped with additional emergency brake integrated in case of power failure or other disturbances.



Dedundant asfatu with C

Recovery ropes

Redundant safety with 6 millimiters double braking Kevlar ropes.



Dimensions & weight

Features

DBS 2.0 - Dynamic Braking System

Material

Noisiness

Usage temperature

Extreme weather conditions

Cable diameter

Electrical supply

Input speed

Bumper



Length: 781 mm Height: 517 mm Width: 388 mm Weight: 35 kg

Stainless steel / Polymer / Kevlar

<10 Db

-30 ÷ 50 °C

Ice Rain Wind speed: 50 knots Humidity: 100% Saline environment

12 ÷ 20 Ø mm

3,5 kW/h

3 ÷ 100 km/h

Equipment

Comfort and safety.

All equipment is chosen with the care and attention we give to our technology.

V_ 1. Standard flight

Avao Bod Fast by Petzl is the best harness on the market, suitable for Zip lines with a high rate of rides. Guaranteed for 10 years. Extremely easy to use, it allows riders to be prepared in 10-20 seconds.

2. Horizontal flight

For horizontal rides, also known as angel flights, we provide a practical and comfortable zip-up harness designed for maximum rider enjoyment. 3. Seated flight

The seat harness is designed to make the flight safe and comfortable. There's no buckle, it is worn like a garment.

Harnesses

The harness is an essential item of equipment to make riders feel comfortable and safe, giving them the best possible Zip line experience. They are lightweight and easy to put on, perfectly suitable for riders of every height and size. Three main types of harnesses are provided for different styles of ride: standard, horizontal and seated.



Lanyards and helmets

The double lanyard is contained in a sheath to prevent tangling around the rider. Helmets are easy to put on, comfortable, certified and easy to clean.



ADRENALINE CONSTRUCTIONS IS OFFICIAL SELLER OF



Carabiners

We use high-strength vulcan carabiners by Petzl. Made from steel and highly resistant to cable friction, these connectors are perfect for multiple and frequent use. For maximum safety, they are impossible to tamper with.

Stainless steel carabiners

Standard carabiners in superior grade AISI 316 stainless steel. Tested and guaranteed for breaking strength. Completely reliable for use in marine environments.



Directional Device

Lightweight and compact, the directional device is placed under the carabiner and allows the rider to hold on and face the direction of flight, preventing turning around.

The coupling device is spaced at a distance from the pulley, avoiding the risk of the rider accidentally touching the cable.

Directional Device is a Adrenaline Construction production.





Solid. Technical. Certified.

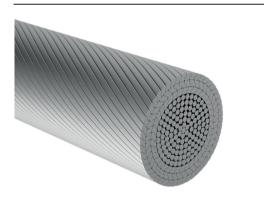
Cable is the Zip line's main component. Our suppliers are world leading manufacturers of cables certified for the transport of people, with minimal wear and the highest safety levels.











Features	
Geometry	Strong and compact
Material	Galvanized steel
Cable diameter	12 ÷ 20 Ø mm

Flexpack Cable

Non-turning, high load, stable and flexible.

These specific qualities make Flexpack a winning choice. Its particular design, based on **modular compacted strands,** allows for high performance constructions, even in the most severe conditions.

The non-turning cables surface treatment allows a further increase in corrosion protection and therefore a longer life span of the rope. A cable is composed with 41 sections, each section is composed by 7 twisted ropes.

Full locked Coil Cable

Galfan Full Locked Coil Ø 18 mm, strands have a high metallic cross section - this guarantees a higher breaking load and elastic axial stiffness with a smaller/reduced diameter.

The outer Z-shaped layers give the rope a **smoother profile**, which allows for better clamping. The locked external surface, the internal compound Tensofill and the zinc-aluminium alloy coating (Zn95Al5) of each external wire allow for a high corrosion protection.

Improved corrosion resistance.

A combination of the closed design construction of a FLC cable, with Galfan coated outer Z shaped wires and an internal zinc rich paste blocking compound that cables use result in a finished cable that has several stages of corrosion resistance.

Average operation time

10 year (twice the logevity as a standard cable)

Noisiness

Reduce friction and noise

Temperature

-30 ÷ 50 °C

Cornerstones of our design

- 1. Minimal maintenance.
- **2.** Adaptable, quick to assemble modular structures.
- **3.** Design inspired by nature.
- 4. Retractable storage units.
- **5.** Moderate installation costs.



The perfect structure for any location

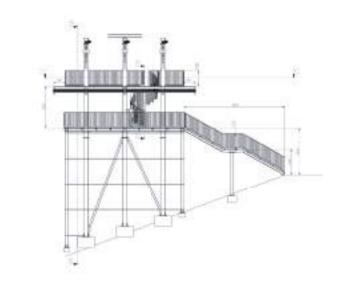
The platforms vary in sizes to accommodate different numbers of riders and operators. The floor is done in the built-in units to provide storage for emergency equipment and spares. These can be retracted when not in use, leaving the platform uncluttered.

Design

Endless solutions.

Each project has its own design. Adrenaline Zip line platforms are the result of the encounter between technology and landscape. Every structure is carried out with respect for environment and visitor comfort.

- 6. Solid steel structures.
- 7. Certified welding.
- 8. Wide covering choice.
- 9. Ground anchors and evacuation hatch.
- **10.** Wide range of optional extras.





The platform is designed in sections to facilitate transport by helicopter. The frame mounting is quickly and easy, to reduce installation costs.

Extra Features

Make your Zip line unique.

It is possible to add more solution for the customization of your project. The extra features include new control devices, additional mechanical automations, all kinds of requirements.





Automation

A cutting-edge system for the automatic management of the Zip line:

- wear monitoring;
- wear monitoring;
- constant remote assistance;
- speed up of ordinary activities;
- maximum safety and performance.



Weather station

Weather station measures 24/7 the wind speed and keep on eye all weather alert parameters.



Cable tensioning kit

Adrenaline provides adjustable hooks and clamps for cable tensioning. It reduce the runnig costs.



Traffic light system

The traffic light system uses LED lights to prevent premature departure or collisions between riders. It only turns green when all the safety measures are activated.



Lifting platform

Rider is always hooked on a cable higher than the access platform, to prevent accidental collisions. By the push-button panel the electric or hydraulic platform is raised to easily hook and unhook the customer. Once the operation is complete it disappears into the station floor.





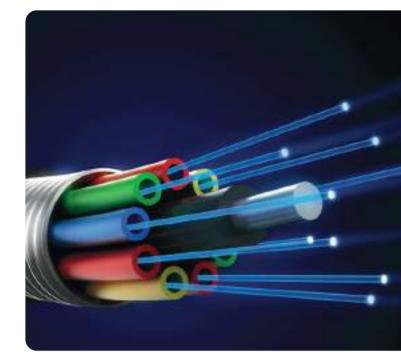
Magnetic-induction cables control

It is possible to check the integrity of the cable during the maintenance operations with the magneto-inductive detections of the steel. It reads 20.000 points per second. It is totaly reliable and ensures safety while lowering inspection and certification time.



On-ride camera

It is a system of cameras placed in strategic points to take fantastic high quality shots, which riders can buy as an unforgettable souvenir of their flight. The professional SLR cameras operate in any weather conditions.



Photovoltaic panels

Stations can be totally autonomous thanks to the addition of photovoltaic panels. When the sun is not shining, the battery pack provides 48 hours of operating time.

Video surveillance

Webcams surveil the Zip line system 24 hours a day. The technologically advanced cameras guarantee excellent night vision. The thermal image makes it possible to detect people even in the dark.





Safety net

There are many possibilities to increase the security of your station. We supply each platform with fall arrest devices of all kinds. For example you can choose to surround the station with a network to avoid railings and give an even more adrenaline-pumping effect to the platform.



Electrical supply

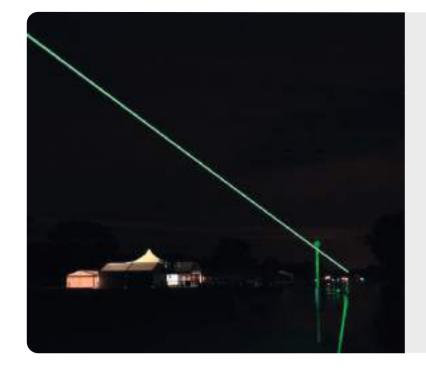
Electrical supply of the stations is always guaranteed also in the most inaccessible places. Fiber optic cables placed on the signal cable allow effortless transportation of data and power.





Skywalk

Adventure has no limits. The skywalk route is only one of the adrenalin-filled design solutions that could be added to the zipline experience.



Laser show

A beam of light connects the valley station to the mountain station. It can vary in tone and effect, implementing the visibility and scenic presence of the installation.



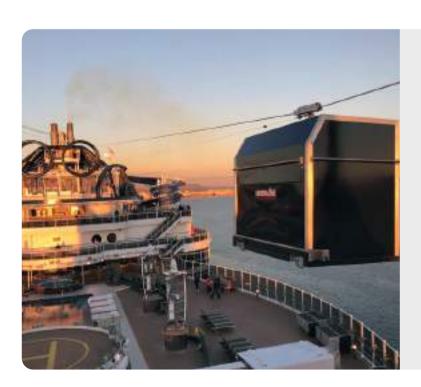
Remote assistance

Technical off-site support is always guaranteed. A timely and advanced technological communication system guarantees the perfect functioning of the attraction. Maintenance operations and the correct functioning of the system are constantly supported.



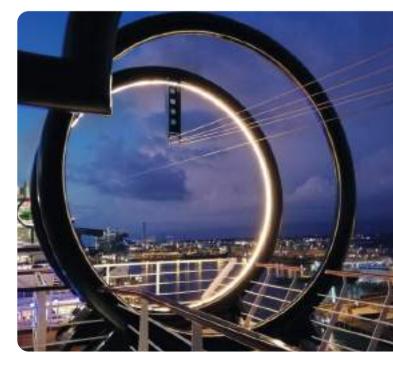
Do you want to increase your Zip line productivity? By adding the nocturnal lighting system it will make the night flights possible. Living the night will be an irresistible attraction.





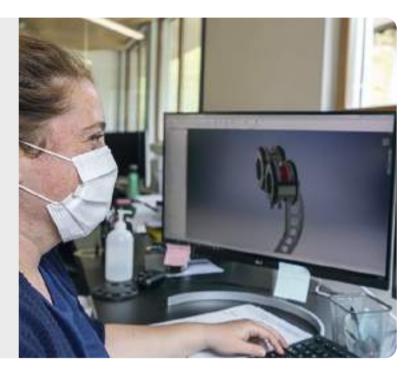
Equipment transportation

Perfect for quickly transporting components along the cable. Operators place pulleys and harnesses inside the box at the valley station. An automatic lifting system brings them back to the start.



Articulated arm

The control panel can be installed on an ergonomic mechanical arm which allows for quick and easy operation of the Zip line system. The operator is free to move and carry the controls with him.



Special effects

Optional extras include water screens, steam tunnels, and every possible imaginable solution.

References.

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Our experience.

We built with all weather conditions and in any location. All we needed where just two anchor points, our advanced technology and a lot of creativity.



MSC Seaside Cruise Ship 2017 Miami - USA

2 **MSC Seaview Cruise Ship** 2018 Rio - BRA

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Rawabi eXtreme

Rawabi Extreme 2016 Rawabi - Palestine



Astenkick Winterberg 2018 Winterberg (NRW) - DE



Alpspitzkick Nesselwang 2013 Nesselwang, Allgäu - DE



Klausberg Zipline 2020 Klausberg (BZ) - IT



Adrenaline X-Treme Adventures Dolomites 2008 San Vigilio di Marebbe, (BZ) - IT



Majella Extreme 2019 Pacentro (AQ) - IT



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TIM Zipline 2019 Milan - IT



Dream Cruises Global 1 Honk Kong - CN

Ŀ Dream Cruises Global 2 Singapore

"It was a pleasure to work with Adrenaline Constructions and achieve a historic result: the first and longest Zip line over the sea! We're proud to have chosen this serious, professional Italian company to create a new concept of entertainment on board of MSC cruise ships.

ran perfectly!

С

CRUISES

After months of work on tight deadlines, we had the pleasure of testing the Zip lines over the sea. What a joy to discover we had absolutely nailed all the goals we had discussed years before! We were very impressed with their reliability, punctuality, technical expertise and dedication to the work."

The project was extremely demanding, but Carlo Trebo, Samuel Miano and their team worked tirelessly. It was great to see such attention to detail in design and execution, and their strive to ensure that everything

Mimmo Lubrano



Despite the very limited time available, we found in the guys a cooperative spirit and great professionalism, which allowed us to arrive at the inauguration on time.

Marta Marini MSC Crociere



"In the heart of the Majella Park, on the slopes of the Morrone, arises the ambitious project of the Zip line by the Adrenaline Group. We're in Pacentro. The challenge to combine the emotion of a breathtaking experience is associated to the possibility to enjoy a beautiful and varied landscape: from the splendid skyline of the silent village to the majestic beauty of the Morrone that wraps the flight.

A mix of emotions within minutes make the Majella zip line a unique experience, made possible by the professionalism and cooperation of the Carlo Trebo staff, wich has handled with competence and optimism the complexy of the place, both from a physical and procedural point of view, for the transposition of all the authorizations of the institutions involved."

Dott. Guido Angelilli Mayor of Pacentro

Contact us.

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