

//////// Company profile



# Taking you higher

Solutions for  
ropeway installations



**ALPINTEC**





## The power to pull



Ropeways are our passion – and have been for more than 40 years now. We plan and erect structures for the world's most renowned manufacturers of ropeways and ropeway operators. Furthermore, we maintain and repair all types of uphill rope-propelled systems. If you have a difficult transport path to overcome, our powerful material ropeways are the solution.

Regardless of whether you need to erect the tower of a gondola ropeway – with millimeter precision from a helicopter – or maintain a small roller on a ski lift, there is no challenge high enough for us or task that we can't take on with perfection.

Since our establishment as a small-sized company in 1972, the demands placed on the manufacture and assembly of ropeway systems have grown with time – and we have grown and matured with them.

Based in St. Pankraz, a picturesque town in South Tyrol / Italy, we serve the entire Alpine region today and foster business relations in all significant corners of the world.



### Our proven success:

Doppelmayr and Leitner, the two market leaders for ropeway engineering, have been relying on our professional expertise for many years.







## Wired with reason

Alpintec's success is based on many factors – but one, above all others, is our motivated and well-trained staff. With their dedication and iron will to continually excel, they are the reason why we have gained such high esteem in the ropeway sector.

Our employees have a lot in common: They are highly qualified and continually boost their knowledge with further training courses. This gives us the competitive edge when it comes to demanding jobs that require the highest level of technical know-how.

Our assemblers, machinists and draftsmen give it their all in each and every working procedure – whether indoors or outdoors, with SpaceMouse, a disc grinder or torque wrench.

When the going gets tough, our members of staff have nerves of steel – both when completing the draft as well as during delicate moments of assembly. To put it in a nutshell: Our guys are wired up with competence and ability.





## /////// Certification

Today, highest safety is the key criterion when it comes to transporting passengers. You can rest assured knowing that Alpintec has been proven to meet the highest quality and reliability requirements – after all, our company is certified according to the ISO 9001, BS OHSAS 18001 and EN 1090 standards.

With our quality management system to ISO 9001, we have a tool for achieving our ambitious targets and meeting every challenge to our customers' complete satisfaction. We are constantly assessing our internal production processes and work procedures based on clearly defined standards. This enables us to guarantee the high-quality work that you expect.

By meeting the requirements of the BS OHSAS 18001 standard, we prove to be in line with the international standards for occupational safety. We have made it our duty to do everything in our power to ensure our employees can perform their work in the safest way possible.

Thanks to EN 1090 certification, we can guarantee through our factory-own production control mechanism that our weight-bearing steel constructions conform to CE requirements.

As our customer, you can entirely rely on us to do the job in your challenging environment.

To participate in public tenders an SOA certificate is required as a guarantee of the company's technical and organizational capabilities.

We are certified in the following categories:

- OG 1: Civil Engineering
- OS 18: Load-bearing Steel Structures
- OS 31: Lifting Systems and Hoisting Equipment

## Precise

We rely on special machines and tools for complex working processes – without them, we wouldn't be able to do the job right. We produce this equipment ourselves at our own in-house facilities. Whether reels or winches, pulley systems, lifting gear or hydraulic components, the special tools are adapted for their exact use or, if necessary, developed completely from scratch.

Our assemblers have years-long experience and play a decisive role during the planning and development phases. External engineers from the ropeway sector also contribute their valuable expertise. The construction and simulation of tools takes place solely using 3D CAD software – while the production is completed in our own shop. The result is impressive: Flawless, customized CE-compliant tools for perfect operation.

## Mechanical ////////////// engineering







## Built to last

Erecting a ropeway is an enormous challenge – for the customer, the manufacturer and the assembling firm. Today, one thing more than anything else is in high demand: Speed. In the shortest amount of time possible, earth has to be leveled, foundations laid, steel structures constructed and ropes tautened. This requires perfect planning and elaborate logistics.

We turn your construction plans into reality – from the first on-site visit to the successful start-up of the ropeway system. More often than not, this is a high-wire act: The work has to be completed in extreme locations under unfavorable weather conditions. This calls for our high-performing machines as well as personally manufactured special devices. If needed, the assemblers receive support by air – with the help of a heavy-lift helicopter, the towers are pre-assembled quickly and with precision.

During the 40 years of our company's history, we have erected over one hundred new ropeway systems worldwide. From ski lifts to funifor aerial ropeways, our repertoire of assembly expertise covers a wide spectrum. Our customers have always been able to rely on our absolutely on-schedule work, convincing precision down to the slightest detail, and quality.







## Tightly roped together

The act of hoisting ropes along the line requires enormous effort both in terms of its logistics and manpower, and is a highly complex challenge. After all, steel ropes weighing in the tons – up to 70 mm thick and several kilometers long – have to be brought into position. Even if a rope normally proves to be holding up the moment it is put into service, highest concentration is essential, particularly for hoisting the rope: It may not touch the ground at any time and it may not rotate on its axis.

Our staff has the best training and experience, also when it comes to preparing for the splicing of the rope. After all, the rope's length and tension have to be precisely in sync with the installation.

We have qualified rope-splicing and casting staff on our side. With their expert knowledge and our own company-made tools, we guarantee customized splicing and rope casting.







## Service please

When it comes to accurate maintenance of your ropeway system, we are the experts. In close collaboration with the operations manager of the specific ropeway installation, we perform a complete maintenance check. We replace or align ropes, carefully inspect parts and structures, replace damaged components and perform all the necessary modifications.

We calculate our expert knowledge and years of experience into the schedule planning. If necessary, several assembly teams work in parallel to ensure that the downtime of your ropeway system is as low as possible. Our fleet and special tools are essential in easing the work and achieving fast results – there's nothing in the way of starting up operations again exactly on time.



Maintaining a machine's technology is often a grimy affair, but our experts like getting their hands dirty and putting lots of elbow grease into the process. They inspect and service parts until they literally turn black in the face. In the end, your ropeway runs like new.

## Taking a clear line

We are right in our element when it comes to maintaining structures along the line. Even the longest line and extreme location conditions are no match for us. Our service covers the entire range: We replace the line ropes, arrange for non-destructive testing, and expertly maintain all parts along the route. Where necessary, components are removed to be carefully serviced in our own shop. Thanks to our CNC machines, we can quickly and reliably perform legally required modifications or changes to the rockers.

If necessary, the large sheave assemblies, which can weigh up to 2,500 kg, take to the air: Our assemblers dismantle them into several parts directly on the tower. Then they can be easily transported away using a smaller helicopter – this way, the costs are reduced to a minimum. In turn, the assembly takes place in the air via helicopter.

Once the work is completed, everything runs again like new. All of the sheave assemblies are aligned and then finely tuned with the use of theodolites. You'll notice the difference: A quietly operating ropeway and less wear and tear of the parts.



See our skills on the internet:  
[www.alpintec.com/video](http://www.alpintec.com/video)





## Aligning the ropes Rope shortening process



## Keeping you in suspense



## Short and sweet



Carrying ropes have to be re-aligned at regular intervals. Our hydraulic power units, winches and rope clamps take care of this hard work with precision – to reliably put ropes with a radius of up to 70 mm and a tensile strain of 160,000 kg in motion.

We are also equipped for further technical challenges thanks to our quadruple gear. We can even align bicable ropeways at the same time: Slackening at the mountain and pulling in the valley take place simultaneously, without having to dismantle the intermediate haul rope support. This means enormous savings in time and money.

Ropes elongate with time and, depending on their load, have to be shortened in specific intervals of time. We support you in releasing the tension in the rope and preparing for the shortening. If you like, our trained staff can expertly splice the rope on site.

At your request, we make it really short and sweet: Our emergency service team can shorten the carrying rope overnight. That way, you can continue to operate the ropeway without any costly downtime.

When it comes to coupling installations, we guarantee an absolutely consistent splice to ensure that the clip's coupling processing at the station proceeds without a hitch. Our special equipment makes this work extremely easy. For example, the coiling machine is used to give the braided rope strands the ideal nominal diameter.



## Cast rope sockets



## A connection ahead

The materials and process used to fixate the ends of the rope have to stand up to the highest stress. In such a case, there is absolutely no compromising on quality – the tensile load which bears on the small area at the ends of the rope is enormous. The ropeway depends on the flawless manufacture of the end fixing, making the casting of the rope a true matter of trust.

We have been manufacturing cast rope sockets – always under the sharp eyes of engineers – since the establishment of the company. The trust that customers put into us has made us strong and enabled us to acquire a plethora of know-how. We can even cast the heaviest haul, track and tension ropes with a radius of up to 70 mm to the highest standards.





## Cross country

Our powerful material ropeways pick up where conventional transport options are unable to perform. They can transport loads of up to 15 tons along a distance of 3.5 km – even impassable terrain or winding routes are no challenge. The drive mechanism is either stationary or runs on mobile rope winches. Material ropeways are ideal for avoiding high costs from helicopter transport or for the construction of access roads.

The material ropeway can be ready to go at short notice – within just days. The dismantling takes place without leaving a trace in the surrounding environment. You can choose to rent, buy or lease the material ropeway. Upon request, our own staff can operate the ropeway or train your personnel to handle this transport technology.







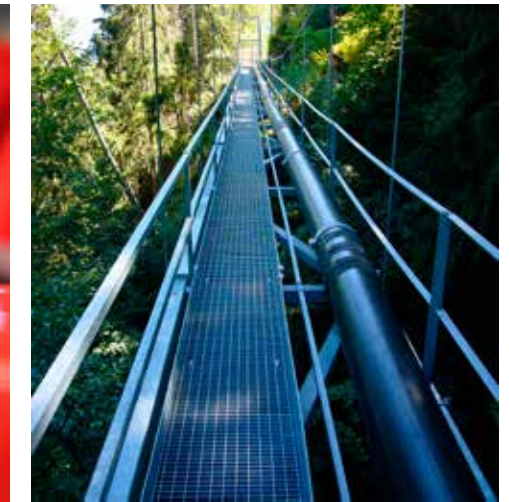
## The perfect cast

Early on in the business, we chose to rely on our own in-house machine shop featuring an extensive range of modern machines. Here is where we can prepare the various components for structure assembly as well as maintain and repair devices and parts.

Our metalworkers and machinists are highly skilled in the operation of cutting-edge CNC-controlled machines for lathing, milling or plasma cutting. Additionally, we are able to manufacture both our own working tools as well as custom builds for our customers.

And we can do even more: With our know-how, we are best equipped to cover other areas of steel construction, too. We plan and build suspension bridges for force mains and for passenger transport, as well as rope locks for torrent structure control.

In short: We are always ready for new challenges.





# Wired up for more?

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