



# THE CABLE CRANE COMPANY

# LCS – THE CABLE CRANE COMPANY FROM AUSTRIA

We are a dynamic, medium-sized company that solves difficult transport tasks in rough terrain with the help of cable crane systems. Safely and with environmental awareness, we overcome any transport challenge, increase efficiency, reduce construction costs, and ensure safety. Worldwide and at any time.



# THE SOLUTION FINDERS

As a team of different personalities, we combine consistency, reliability as well as innovation and offer a lot of know-how and creativity. Due to our experience, extensive industry knowledge, and broad material expertise, we offer our customers highly professional, customised products and services in the sectors of

- Mountain Construction Sites
- Pipeline Construction
- Hydro Power
- Dam Construction
- Mining
- Bridge Construction



# CABLE CRANE SYSTEMS – THE SOLUTION FOR TRANSPORT CHALLENGES IN ROUGH TERRAIN

Our cable crane systems transport heavy loads with weights of over 20 tons. Despite long distances and steep slopes, their use is not restricted. They enable a quick, safe, and efficient transport of machines and materials to the construction site – and this without interruption: 24 hours a day, 365 days a year.

Furthermore, cable crane systems can be installed in any terrain. This applies regardless of whether the construction site is located in high mountain ranges, rain forests, at rivers or in other landscapes. Climatic conditions are also irrelevant for the operation of our systems. They are just as suitable for snowy regions as for hot deserts.



# CABLE CRANE SYSTEMS HOW THEY WORK



Cable crane systems consist of a horizontally tensioned cable to which a crane unit is attached. The crane unit moves on the track rope by releasing or alternatively by tightening the hauling rope through a winch or circular drive. The crane unit can lift and transport the loads to any desired position along the track. It has its own engine and is operated remotely by the loading and unloading personnel.



# CABLE CRANE SYSTEMS FOR MOUNTAIN CONSTRUCTION SITES



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Especially at mountain construction sites, where heavy loads are transported over a long period of time, the use of our cable crane systems is worthwhile. They can be operated under any weather conditions and at any day of the week or during any time of the day, due to the low environmental impact caused by noise or dust.



## > Facts to cable crane systems for mountain construction sites

SPAN UP TO  
**3,000 m**

TRAVEL SPEED UP TO  
**7 m/s**

PAYLOAD UP TO  
**30 t**

LIFTING HEIGHT UP TO  
**200 m**

LIFTING SPEED UP TO  
**1.5 m/s**

STEEP TERRAIN UP TO  
**70 °**



# CABLE CRANE SYSTEMS FOR PIPELINE & PENSTOCK CONSTRUCTION



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When pipelines are built in difficult areas, cable crane systems support the transport of material: pipes, construction equipment and material can be moved effortlessly in the air over inaccessible terrain. Afterwards, the cable crane systems lower the transported goods directly at the designated location.

Another advantage: Our cable crane systems provide direct access to the construction site and minimise the impact on the surrounding nature.



## 1. Transport of pipes

The cable crane system picks up pipes from a loading station accessible by truck or transporter. Each pipe is secured with two nylon belts, lifted, transported to the designated unloading position, and lowered.



## 2. Laying of the pipe

When lowering the pipe, the operator controls its angle using two independently controlled lifting devices, allowing for any inclined position. Once positioned, the pipe is ready for welding.



## 3. Fitting and welding

When the pipe is in the desired position, the crane unit keeps it stable in the air. An external line-up clamp fixed to the pipe keeps it in the required welding position.



## 4. Sandblasting and coating

Once the pipes are welded, the cable crane system transports a special platform to any welding position. Sandblasting and coating works can be easily carried out from this platform which is located above the pipe.



## 5. Trench barriers

The crane unit effortlessly transports sandbags into steep terrain using a bulk basket, allowing for easy unloading at any desired position for barrier construction or padding.



## 6. Backfilling

If no backfill material is near the pipeline trench, the cable crane system handles backfilling. Material is loaded by truck or excavator, transported to the trench, and unloaded via remote control using the crane's two independent lifting devices.





# CABLE CRANE SYSTEMS FOR DAM CONSTRUCTION



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In 2020 LCS took over the technologies for radial, parallel and luffing cable crane systems from the company ThyssenKrupp AG and markets, distributes and manufactures them exclusively worldwide.

## > Luffing Tower Cable Crane System

In a Luffing Tower Cable Crane system, two towers are placed opposite each other on both sides of the dam. The rope stretches directly above. The two towers are luffed to the left and right (15° each) by winch-driven and multiply reeved luffing ropes. This allows for a larger working area to be reached (a total of 32 meters to the left and right).



## > Radial & Parallel Cable Crane System

In a radial crane, one side is fixed while the other side is positioned on a radial track. The working area forms a circular sector, and the working width depends on the crane span and the length of the radial track. Whereas a parallel cable crane has two carriages running on parallel tracks and forming a rectangular working area.



# CABLE CRANE SYSTEMS FOR MINING



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Cable Crane Systems enable access to underground mine shafts as well as safe working at tailing ponds or conventional dams – whether for normal transport and people or for rescue operations.

## > QXcrane System

The QXcrane – consisting of four towers, four winches and an operator's basket – combines the robustness of cable cranes, which transport high loads over distances up to 3 km, with the 3D navigation capabilities of SpiderCams used in sports stadiums. This combination increases payload capacity and area coverage.



## > Dual Cable Crane System

A dual cable crane system consists of two systems running parallel to each other which can be used independently of each other or in combination. This enables great flexibility and efficiency and, if required, also allows almost double the load capacity to be achieved.



# CABLE CRANE SYSTEMS FOR BRIDGE CONSTRUCTION



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When it comes to bridge construction, different materials and equipment are required for each construction phase. Due to the length and often massive heights of the bridge the use of conventional construction techniques is obsolete. Precision, speed and safety are the guidelines that accompany a bridge construction from the very beginning.



## > Facts to cable crane systems for bridge construction

SPAN UP TO  
**1,650 m**

PAYLOAD UP TO  
**30 t**

TRAVEL SPEED UP TO  
**8.5 m/s**

LIFTING HEIGHT UP TO  
**350 m**

LIFTING SPEED UP TO  
**3.5 m/s**

LOWERING SPEED UP TO  
**3.5 m/s**



## MORE THAN JUST CABLE CRANES

LCS offers a comprehensive range of spider excavator services designed for challenging applications. Our expertise includes trenching and excavation work in steep slopes, precise drilling of blastholes, and a variety of anchoring solutions using specialized drilling attachments. This allows us to operate efficiently even in the most difficult terrains.

A key aspect of our services is soil stabilization, which is crucial for the safety and longevity of construction projects in steep or hard-to-reach areas. We also provide professional solutions such as netting with anchoring and anchored gabions, offering additional support and protection.



## ABOUT LCS

The success story of LCS began in 1989. However, the expertise of today's company dates back to 1948, when GANTNER, based in Sulz, Austria, was founded. This company specialized in cable winches and components, which were also used by LCS.

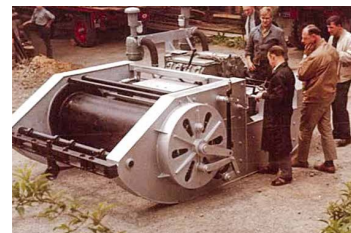
In 2004, the collaboration between the two companies intensified, and together they developed new machines that were immediately put into use at LCS. To fully leverage the comprehensive expertise and experience of both companies, they merged in 2017 and GANTNER Seilbahnbau was fully integrated into LCS Cable Cranes.



# THE HISTORY

## > LCS in figures

- OVER 70 YEARS**  
experience in cable crane technology and winches
- OVER 60 EMPLOYEES**  
realise specific customer requirements as an experienced and innovative team
- FOR OVER 200 PROJECTS**  
various transport solutions developed and implemented using cable crane systems
- ON 6 CONTINENTS**  
transport challenges solved in rough terrain



1948

Foundation of the engineering company GANTNER Seilbahnbau for the manufacturing of winches, crane units and corresponding accessories.



1989

Foundation of LCS Cable Cranes, a company specialising in cable crane systems: With the help of a mobile cable crane system, Christoph Ludescher works on various projects for ski lift construction and timber transport.



1996

Use of the new cable crane technologies on international construction sites in alpine terrain, for example in the construction of pipelines or hydro power plants.



2004

Start of an intensive cooperation between the companies GANTNER Seilbahnbau and LCS Cable Cranes. The aim was the development and application of new machines on construction sites.



2017

Merger of the affiliate GANTNER with LCS Cable Cranes. Fusion with the expert for special machines and drive systems ECCON. Continuation of all operations under the name LCS Cable Cranes.



2021

Establishing a modern brand for LCS Cable Cranes through comprehensive re-branding and by clearly communicating its own values, products and strengths. Aim: overall representation of all business areas.

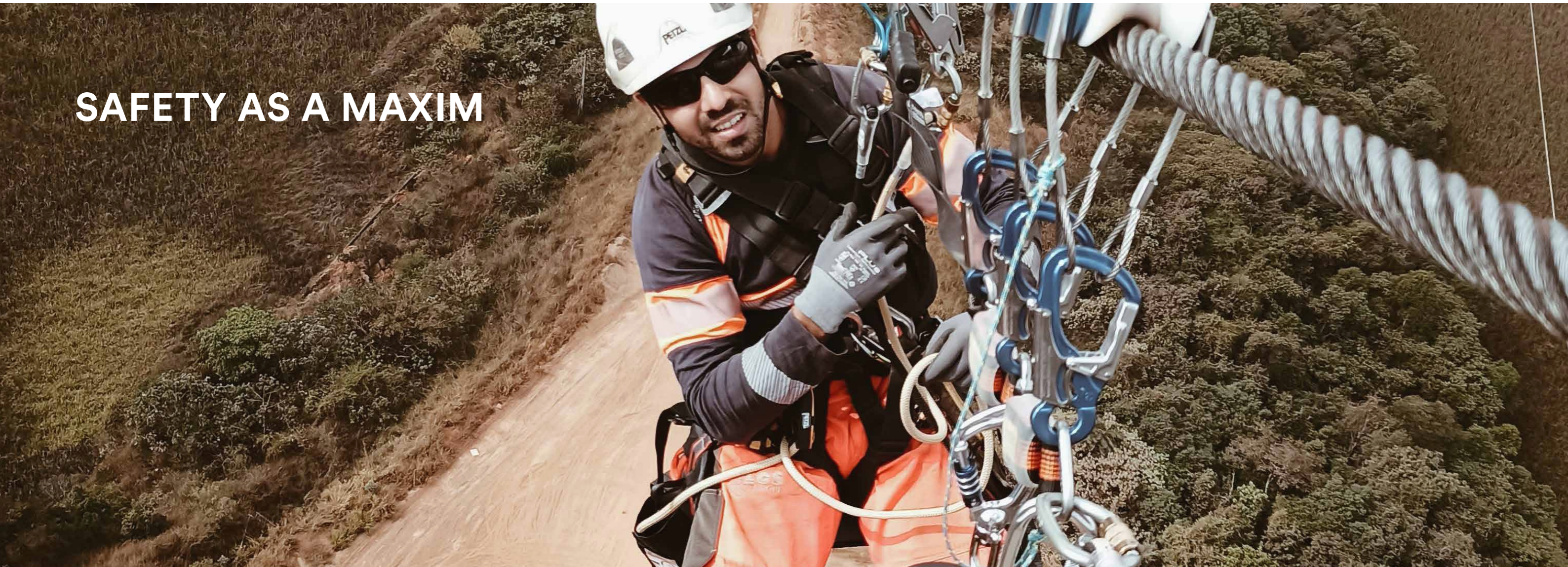


# SAFETY, ENVIRONMENT AND QUALITY

On all our projects, the safety of people and machines as well as the quality of our systems are in the foreground. We care about the environment and our impact on it.



# SAFETY AS A MAXIM



## > Safety ISO 45001:2018

- ✓ active occupational and health management
- ✓ reduction of accidents and/or their severity
- ✓ protection of all persons involved from illness and/or accidents
- ✓ continuous development
- ✓ integration of the experience and competence of the stakeholders

Alongside prioritizing the health and safety of all our employees, ensuring the safety and reliability of our cable crane systems and winches across all projects is of paramount importance. These systems are designed to transport heavy loads safely and incident-free to their intended destinations. To maintain this standard, we integrate only proven, rigorously tested safety equipment into our machinery and systems.





# ENVIRONMENTAL AWARENESS AS A PRINCIPLE



## Environment ISO 14001:2015

- ✓ determining a corporate environmental policy and environmental targets
- ✓ establishment of internal management systems and processes
- ✓ reduction of waste, sewage and emissions
- ✓ as little impact on the environment as possible
- ✓ adaptable to different geographical, cultural, environmental or social conditions

Our systems and winches also take environmental effects into account: Every solution is designed to have as little impact as possible on the surrounding nature. Furthermore, it is our goal to transport heavy loads in an environmentally friendly way and as quiet as possible – especially because we often work in regions with a sensitive nature.



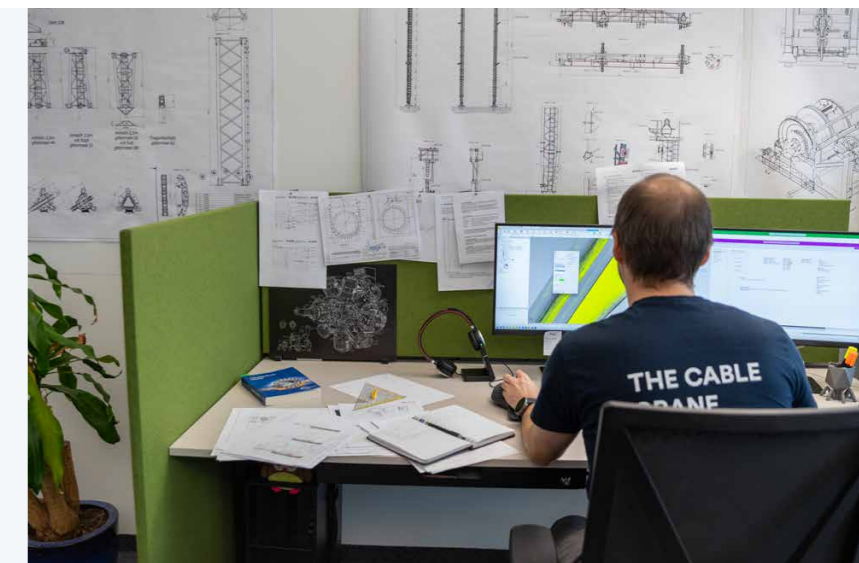
# QUALITY FOR OUR CUSTOMERS



## > Quality ISO 9001:2015

- ✓ reliable structures and processes
- ✓ targeted customer orientation
- ✓ products and services adapted to customer needs
- ✓ fulfilment of the highest quality standards
- ✓ continuous improvement and control

In all our processes, from the design to the manufacturing, we follow strict rules and procedures. This is how we guarantee the best quality of our products. This includes appropriate planning, customised project management and professional service provision for our customers.



# LCS IN ACTION

The reasons why our customers decide to use a cable crane system, or a winch are manifold. Projects were realised all over the world with companies of the oil and gas industry, the construction or energy sector.

You can find an excerpt of our projects here:






Our team of experts is dedicated to developing customized solutions tailored to the unique needs of each project. With state-of-the-art technology and years of experience, we ensure that even the most challenging tasks are executed efficiently and reliably.

Trust LCS for your next projects in inaccessible terrain!

**> Send us your enquiry**

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