

# IMMOOS

Evacuation and  
safety solutions



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## Integrated safety

Established more than 20 years ago, we are a family company specialising in the development, provision and maintenance of evacuation and safety systems. Our customers include manufacturers and operators of cable car and industrial systems in some 30 countries worldwide.

Immoos GmbH manufactures evacuation devices, personal protective equipment and climbing-protection systems, operating as not only a manufacturer and dealer of high-quality products, but also as a full-service provider.

We cooperate closely with manufacturers of cable cars to ensure a continuous and comprehensive exchange of expertise and experience. We utilise our specialist knowledge to intensively support projects, usually from the very outset.

Our team always strives to develop personal rapport with customers in order ensure open dialogue and tailored advice. We understand the concerns of our customers. In fact, most members of our team have previously worked as technical managers for cable car businesses.

Through our combination of experience and professional skills, reliable products, integrated concepts and personal contact, we help to foster trust, which is the very foundation of all-round safety.

Florian Immoos  
Managing Director and Owner

## A comprehensive all-round package

Operators of cable car and industrial systems need to be well prepared for every eventuality. Immoos GmbH supports operators with proprietary products and a portfolio of integrated services.

Immoos GmbH has developed a range of products for cable car evacuation and industrial systems safety, all of which have been successfully launched on the market. Products include evacuation systems, personal protective equipment and permanently mounted personal protection equipment, as well as new, innovative evacuation carriages. Our products are the culmination of many years of experience and solid specialist expertise, and all satisfy relevant international standards.

High-quality materials are the cornerstone of problem-free evacuation operations. But the success of an evacuation operation is highly dependent on proper planning, a flawless evacuation concept, appropriately trained personnel and well-considered organisation. Every system and every situation poses its own problems and presents a different challenge to the evacuation team, as well as very specific requirements on the operator.

Immoos GmbH provides advice and support to operators of cable car and industrial systems as well as to organisations working at high altitude. Our integrated portfolio of services includes the development of overall concepts and system-specific evacuation plans, the provision and maintenance of appropriate evacuation material as well as expert training for personnel and the analysis and optimisation of existing evacuation concepts. We bring all our services together into a comprehensive all-round package – Immoos Safety Management – to give customers real security of planning and maximum transparency.





## All under one roof

Our solutions are as individual as our customers. All our solutions come together in one attractive all-round package – Immoos Safety Management – to make sure that no need goes unmet.

Operators of technical systems agree on one thing at least – you cannot plan everything. We believe that working with us should be as easy as possible. Through Immoos Safety Management, we offer a single service that unites all our solutions into an individual contract at a fixed price. This helps to ensure security of planning and cost transparency and leaves our customers free to concentrate on their core business while enjoying maximum safety and reliability in their evacuation operations.

Under Immoos Safety Management, we produce specific evacuation plans and concepts for systems, provide appropriate evacuation material and personal protective equipment, train operating personnel and carry out annual exercises on site. We inspect materials and equipment annually and revise or replace products without charge at the end of their service lives.



### Immoos Safety Management

The all-round carefree package: we provide, maintain and, where necessary, replace the complete range of evacuation material. We carry out training, exercises and expert inspections on site annually and update evacuation plans and concepts. Customers pay an annual amount for the Immoos Safety Management package, and the price is fixed for ten years.



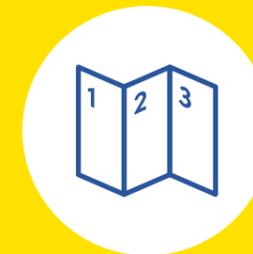
### Training

It's essential to have procedures in place. Immoos GmbH trains personnel working with cable car and industrial systems on how to work with evacuation material and personal protective equipment. We deliver technical and practical knowledge and organise emergency exercises on site.



### Expert inspection

Evacuation material and personal protective equipment must be inspected at least once annually, but ideally before and after each use. Our team is authorised to carry out expert inspections. We check all equipment on site. Alternatively, equipment can be returned to us for inspection.



### Evacuation concepts and plans

Immoos GmbH develops individual evacuation concepts and plans for cable car and industrial systems. Our plans and concepts contain clear decision-making tools and structured processes and form the basis for evacuation operations. Our customers have come to rely on our many years of experience, the expert knowledge of our team and close cooperation with authorities.



### Optimisation analysis

We analyse and optimise existing evacuation concepts. We examine which systems are grouped into sectors, where material may be used repeatedly in order to achieve savings and whether existing concepts can be updated. We work with the customer to create the foundations for an optimised evacuation organisation and submit our plans to the relevant authorities.



### Development of individual solutions

Many systems require individual, tailored solutions. Immoos GmbH develops customised, cost-efficient systems for its customers. We utilise our many years of expertise to support and advise operators of cable car and industrial systems, from planning and construction through to final operation.

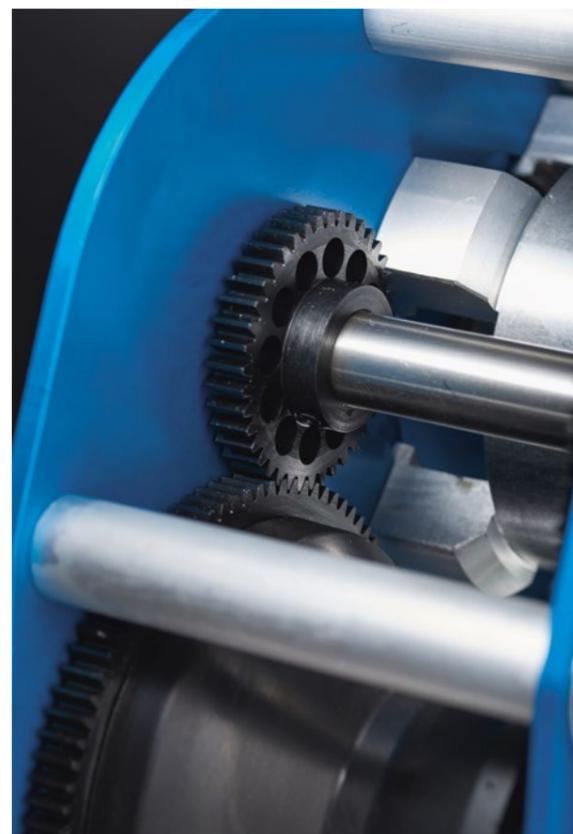
## Safe movement

Self-driven cable carriages developed by Immoos GmbH can be used with wire ropes of varying diameters for efficient and safe movement.

Our self-driven cable carriages are the culmination of many years of experience and solid specialist expertise. They allow people to move quickly and safely on the wire ropes of cable car systems and amusement rides. In the development of our carriages, we have thought carefully about how to combine ease of use with efficiency. Our self-driven cable carriages are characterised by their quiet, stable running properties on the haul rope, which has been achieved with running gear comprising two rollers.

The various Immoos cable carriages have been designed for use with wire ropes of diameters up to 75 mm and an incline of up to 105%. A comprehensive range of accessories such as a four-stroke engine drive and different running gear helps to enhance the options for efficient evacuation. All carriages are certified and satisfy the requirements of directive (EU) 2016/424 relating to cableway installations as well as European standard EN 1909 «Recovery and evacuation».

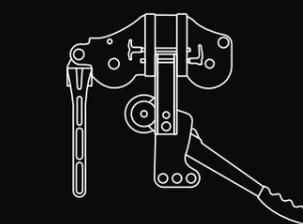
**Instruction film**  
[immoos.com/ss1en](http://immoos.com/ss1en)



**SS1 mGB**  
 Self-driven carriage with automatic centrifugal brake, dead man's brake and hand brake.

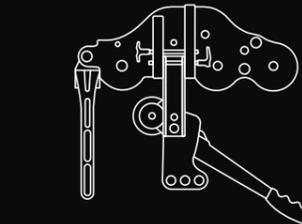
Ø 12–60 mm  
 Δ 105%

**SS1 oGB**  
 Self-driven carriage with dead man's brake and hand brake but without automatic centrifugal brake. Suitable for flat cable sections.



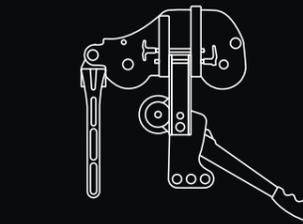
Ø 12–60 mm  
 Δ 50%

**SS1 mGB Twin**  
 Self-driven carriage with automatic centrifugal brake, dead man's brake and hand brake. Low wear thanks to second drive roller. Suitable for long, steep cable sections.



Ø 12–60 mm  
 Δ 105%

**SS2 mGB**  
 Self-driven carriage with automatic centrifugal brake, dead man's brake and hand brake. Suitable for larger cable diameters.



Ø 30–75 mm  
 Δ 105%

## Safety whatever the situation

Personal protective equipment is an essential component of safety when working at high altitudes. Immoos GmbH provides advice and support to customers and assembles sets for a wide range of application areas.

Personal protective equipment is indispensable to anyone working on cable cars, industrial and electrical systems, power plants, large construction cranes or in building construction. Equipment not only needs to be specially tailored and adjusted to the needs in question, but must also undergo regular inspection and maintenance. This is the only way to ensure maximum safety at all times.

Immoos GmbH advises and supports customers in the procurement, use and upkeep of personal protective equipment or PPE against falls from height. Through appropriate training and certification, our team is authorised to carry out expert inspections of equipment.



The typical yellow Immoos cable and device bag is a standard component of every PPE and evacuation set.



### Safety set

The safety set limits the distance a person can fall in free-fall and ensures that the user is intercepted by the system after the fall. It does not, however, reduce the risk of falling from height.

### Restraint set

The restraint set restricts freedom of movement so that the user is unable to reach areas in which there is a risk of falling from height. The restraint set is not intended to intercept falls, nor does it act as a body retaining device.

### Positioning set

The positioning set prevents free-fall and allows the user to reach positions that require him or her to lean into or be suspended in the system.

### Comrade evacuation set

This set enables the evacuation of persons suspended in a safety device. The set is suitable for all PPE sets, is reusable and can be used with fall arresters in conjunction with auxiliary material.

### Set for industry and wire rope access

The set for industrial climb and wire rope access technology provides individual equipment for working on a suspended wire rope or cable. It is suitable for a wide range of activities and allows abseiling even from high altitudes.



PERMANENTLY MOUNTED PERSONAL  
PROTECTION EQUIPMENT

## Complete freedom of movement

Our self-developed, permanently mounted system for personal protection helps to ensure safe and efficient ascent and descent. Its versatile design is suitable for use on a wide range of structures and, if necessary, can be expanded with a horizontal stop device.

### Fallbloc climbing protection system

The Fallbloc climbing protection system protects people from falls when vertically ascending and descending ladders, when working on the stanchions of cable car systems, for example, or on pylons, wind energy systems and steep stairways. The Fallbloc climbing protection system from Immoos GmbH allows for curved guiding of the safety cable, such as on staggered support ladders or at the transition between two ladders.

The central element is the accompanying Fallbloc 2 fall arrester. Fallbloc 2 accompanies the user during upwards and downwards movement and automatically triggers a blocking action on the permanently mounted, eight-millimetre safety cable in case of a fall. The fully traversable cable guides mounted at a distance of six to eight metres prevent the safety cable from hitting the structure. This helps to reduce wear on the cable and noises that occur during movement.

The system is certified in accordance with EN 353-1:2014 relating to guided type fall arresters and is appropriately type-tested.



### Horizontal stop device

Horizontal stop devices provide fall protection to persons working in horizontal positions. These systems are suitable for use on roofs, platforms, walls and ceilings or in industrial and traffic structures. The safety attachments fitted to the safety cable provide unlimited safety during movement. Immoos GmbH offers stop devices from various manufacturers, including as accompaniments to the Fallbloc climbing protection system.



## Safety and trust since 1997

Our family company brings more than 20 years of experience in cable car evacuation technology under one roof. Today, our products and services find their way into the hands of an increasing number of satisfied customers.

Immoos GmbH was founded in 1997 in Oberarth in the heart of central Switzerland and laid the foundation stone for successful evacuation systems with the type A running gear in the same year. Many in our team have previously worked as technical managers for cable car businesses and we have combined their experience and professional competence to launch many successful products over the years. Our products undergo constant innovation and are now used in some 30 countries worldwide.

Our SS1 self-driven cable carriage has allowed us to revolutionise cable car evacuation and to consolidate our strong position on the international market.

We are faced with an ever-increasing number of challenges from manufacturers and operators of cable car and industrial systems, and we embrace every one with the same high level of passion. Every challenge gives our team of around a thousand specialists the opportunity to seek out and develop new solutions. Today, we are a direct point of contact for authorities, manufacturers and systems operators when it comes to integrated advice, supervision and support for evacuation technology.

Our products and services bring trust and safety to our customers – two key themes to our success, illustrated by the new look that we launched in 2018.

## A personal, competent approach



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