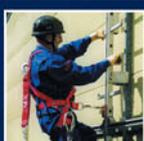
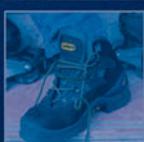


# SÜII



Safe Climbing Systems

Bacou-Dalloz

## Bacou-Dalloz

is the world's leading manufacturer of individual protective equipment intended for personal protection in the workplace or in high-risk environments. The group comprises three branches of activity; head, body and fall protection, which combine to offer complete head to toe protection.

With sales offices and factories worldwide, we are able to offer safety solutions that conform to global industry standards (CE, OSHA, CSA, ANSI, AS/NZS).



### The major causes of injury in the workplace



## Gravity kills!

Falls from height are the 2<sup>nd</sup> leading cause of injuries or death in the industry.

In all cases of industrial accidents, these figures highlight inappropriate working conditions, in the case of work at height however, the consequences are immediate and serious. The results are either a disabling injury or death. This creates a high risk to any employer with employees working at heights.

Around one in seven fatal industrial accidents result from a fall from height.

## Defy it!

According to the European directive 89-686, fall protection measures must be put in place by the employer of any person working at height. If it is not feasible to eliminate the risk through design or engineering controls nor provide preventative measures, the employer must consider using protective systems such as the Söll GlideLoc® height access system with appropriate personal fall protection equipment.

Söll systems offer solutions that prevent workers from falling from heights and reduce the risk of injuries due to falls.



**synonymous with quality**

*Under the umbrella of Bacou-Dalloz, the Söll product line offers you a broad, highly specialized range of fall protection systems & services. Established by Karl Söll as an industrial foundry in 1921, the firm has been developing and manufacturing ladder climbing safety systems and components for fall protection since 1969. Today the brand Söll is synonymous with efficiency and quality in height access solutions.*



## Technology & Expertise from Professionals for Professionals.

### Height Access Solutions: Worker safety at height is paramount

From engineering through construction and tower management, a permanent height access system allows for heavy usage, year after year with minimal maintenance, while offering increased safety and improving user comfort.

### Choosing the right system is essential

Most approved systems look good on paper and achieve an acceptable level of safety but there are important differences in design and application. To be sure you choose the best system, you need to evaluate safety features, function, ease of use, durability, maintenance, time, cost and long term value.

### Söll vertical and horizontal systems

GlideLoc® is a fall protection system, permanently installed on buildings, towers, masts, etc... comprised of a guided type fall arrester, steel or aluminium notched rails for retrofitting onto existing ladders, ladders with a central safety rail incorporated, guide rails, and a wide variety of mounting brackets to fit most structures.

Söll's Xenon horizontal lifeline is a cable anchorage device that can be easily installed on rooftops, walls or overhead and incorporates a shuttle, intermediate brackets and a multifunction shock-absorber.

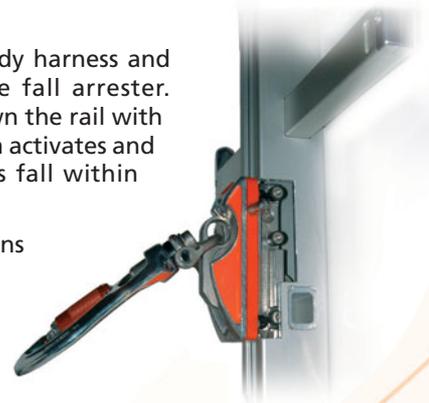
Söll has an experienced team of engineers who can help you to design the right system for your application.

### How does it work?

To ascend the GlideLoc system the user dons a full body harness and attaches it to the heart of the GlideLoc system: the fall arrester. This is uniquely designed to travel smoothly up and down the rail with minimal effort. In the event of a fall, a spring loaded cam activates and locks into the notches in the rail, arresting the user's fall within centimeters.

Today the Söll GlideLoc system offers permanent solutions for vertical climbing and horizontal access, that conform to EN353-1, and is the only solution that meets all the global industry standards (CEE, OSHA, ANSI, AS/NZS, CSA).

Thanks to its high safety standards, ease of use and versatility, Söll Safe Climbing Systems have been adopted by companies such as General Motors, German Telekom, France Telecom, Transocean, Siemens Powerlines, SPIE Trindel, Sagem, Ericsson, CEGELEC (Alstom), Alcatel, Ford, German railways, Austrian Railways.



# Applications

## Reach the Sky with the GlideLoc® Safe Climbing system

*The fall protection and anchorage devices are primarily used in industries such as telecommunications, radio and TV masts, construction, power supply and hydroelectric installations, wind power facilities, chimney and industrial plants, building and facade work, the petrochemical industry, land based and off-shore oil rigs, shipbuilding, crane installations, shafts and manholes, aircraft hangars and loading/unloading stations.*

Electricity pylons with curved vertical rail (galvanized steel) retrofitted onto existing rungs.



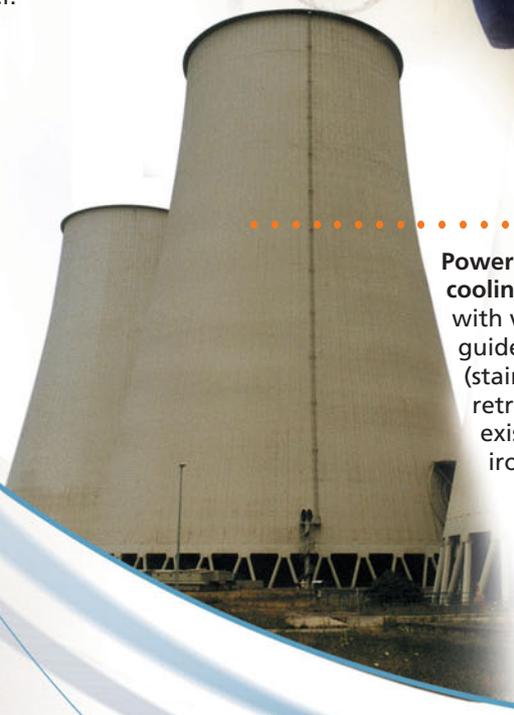
Wind turbine with galvanised steel ladder.



Floodlight mast for stadium lighting with vertical ladder made from galvanized steel and cover plate.



Power station cooling tower with vertical guide rail (stainless steel) retrofitted onto existing step irons.



.....  
**Motorway bridge**  
with aluminium vertical  
ladders, twisted change-  
over rail and cover plate  
for access prevention.



.....  
**Railway station**  
with sideways sliding  
aluminium ladders and  
cover plate.



.....  
**Energy generator tower**  
with steel ladder, rotary exit  
section, crane and Revac.



.....  
**Hydroelectric power station**  
with ladder, turntable and  
horizontal rail, made of stainless  
steel.



.....  
**Advertising mast** with  
galvanized steel ladder  
and a rotary exit  
section at the  
platform level.



.....  
**River dam** with ladder  
and shaft access made  
of stainless steel.



## A fall protection concept for the highest safety requirements

*The GlideLoc Safe Climbing system includes fall protection ladders, guide rails, and guided type fall arresters. System accessories such as entry and exit devices, roof ascent or shaft entry equipment make it possible to design a system that is not only appropriate for the structure of the building or installation, but which also satisfies the very highest safety requirements.*

### Enhanced Safety

A safe climbing system needs to meet stringent safety standards and withstand constant wear and tear.

- In contrast to rope systems, Söll's guide rails allow a combination of vertical and horizontal access without having to disconnect and reconnect.
- Söll's rail systems permit safe roof and platform access, whereas rope based systems often end at the last rung so that the stresses are concentrated on the fixing point. Söll GlideLoc systems conform to EN353-1.

### Versatility

We cannot expect the structures that we climb to be two dimensional

- Söll's rails and ladders are available in both straight and curved form in a variety of materials and can be retrofitted to existing fixed ladders.
- A wide range of components allow the systems to be engineered to suit a variety of applications.

### User Comfort and Ergonomics

Easy to use, the GlideLoc system offers a safe working environment

- The only system where the user can lean forward or backwards whilst ascending and descending and is therefore adapted to closed cage environments.
- The fall arrest shuttle glides smoothly along the rail, without manual guidance, and allows hands free operation for greater productivity.
- The ergonomic design reduces user fatigue during ascent and descent.

### Economic

Söll fixed systems offer a long term economical investment

- Unlike cable systems, they are not subject to any annual inspection and need only be checked after a fall. They can withstand the toughest of environmental conditions.



# Söll Ladders

## The permanent safe climbing system

*Fall protection ladders already have an integrated guide rail for the guided-type fall arrester in the center stile. They are available in aluminium, hot-galvanized steel and stainless steel both as central-stile ladders and with side rails.*

### What's the difference?

- **Hot dipped galvanised steel**

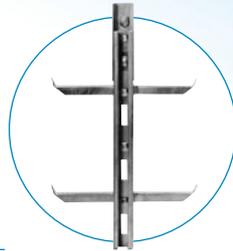
The cost effective solution for general applications.

- **Stainless steel**

Suitable for harsh environments such as chemical plants, food industry, off-shore and industrial chimneys.

- **Aluminium**

For high corrosion and distortion resistance and a good appearance.



#### Y-Spar

Cost-effective alternative. The low surface area keeps wind loads transmitted on to the understructure to a minimum.



#### Twin Ladder

The operator can glide his hands along the side rails when ascending without having to hold onto the rungs. Ideal for dirty surroundings. Offers high distortion resistance.



#### Guide rail

Can be assembled on pre-installed ladders, step irons etc. An ascent route protected in this way offers the same protection as Söll's vertical ladders.

# PivotLoc

## The foldable ladder system

*The new PivotLoc aluminium ladder system is a cost effective, innovative alternative to the cover plate. Through its unique design the PivotLoc can be closed when not in use thus preventing unwanted access onto a worksite and meets today's important worksite applications.*

**NEW**

### Safer

- The PivotLoc offers a reliable fall protection solution for height access and work positioning.
- When closed, the ladder can be locked shut in order to prevent unauthorised use of the system.
- The PivotLoc can be locked open in order to prevent accidental closure.

### Discreet

- Once the side rails have been folded together, the ladder is very discreet (105 mm wide in the closed position) thus meeting architectural and planning requirements for an "invisible" height access system.

### Versatile

- PivotLoc can be used in conjunction with all the other Söll ladder systems or on its own for heights of up to 18 m.

### Robust

- Constructed from corrosion resistant anodised aluminium.
- In the closed position, the wind resistance of the system is at a minimum.

### Ease-of-use

- The section is lightweight and easy to manoeuvre.
- The side rails offer additional support to the user when climbing and descending.



Locked closed

Half closed

Locked open



# Guide rails

## A reliable solution for horizontal access

*The Guide rail horizontal anchorage device is designed to provide a safe working environment for people working at height where a fall hazard exists, e.g. on roofs and facades. The user connects his harness to the guide rail by means of a shuttle, and where applicable, a shock absorbing lanyard.*

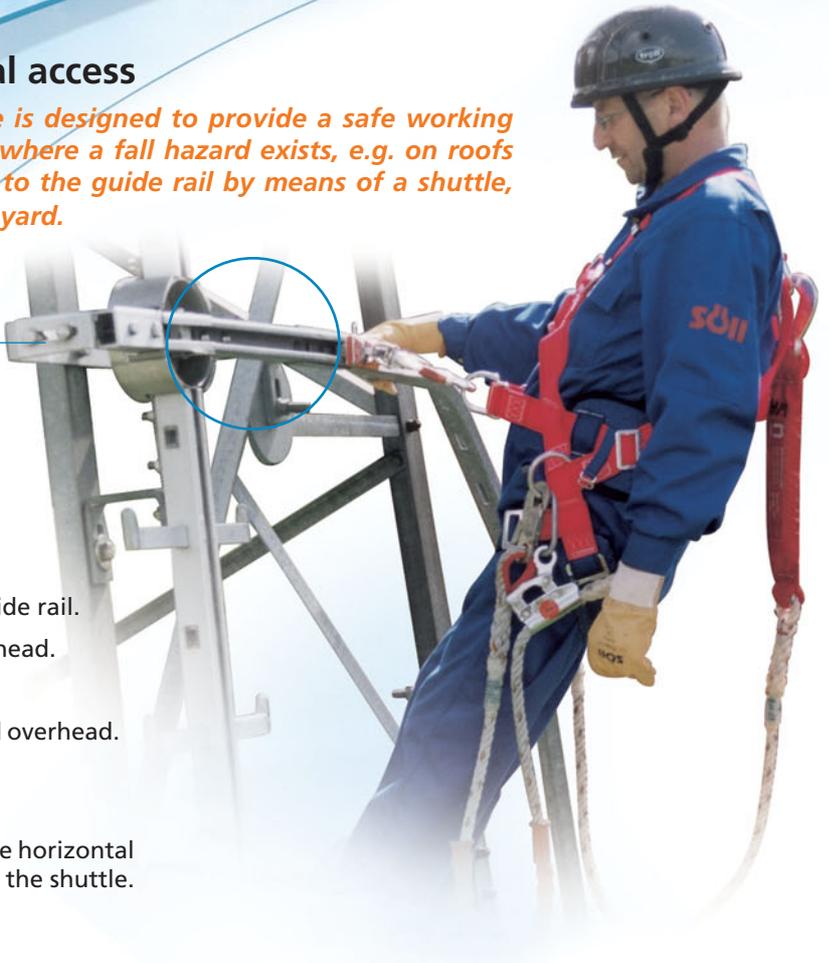
The guide rail provides a reliable solution for horizontal access to the work place. The rails are available in stainless steel, aluminium or galvanised steel and in sections of up to 4 m in either curved or straight form.

### Versatile

- Can be used in conjunction with a vertical guide rail.
- Can be fixed to the ground, to a wall or overhead.
- Suitable for up to three people at a time.
- Can be used with a fall arrest block when fixed overhead.

### Safe

- Easy transition from a vertical rail system to the horizontal guide rail: No need to disconnect and change the shuttle.



# COMFORT

## The New guided type fall arrester for smoother performance

*The patented new COMFORT fall arrester provides the connection between the full body harness worn by the worker and the guide rail. This combination ensures complete safety during any descent and ascent, with or without leaning back. The stainless steel catch clamp locks onto the rail in the event of a fall.*

### The 3 in 1 compact Shock Absorber

Its unique deformable structure absorbs most of the impact energy of a falling person thus reducing fall arrest forces to an extraordinary level of only 3.7 kN.

- Energy absorber.
- Fall indicator.
- Connection point to the harness.

**NEW**



### Operates with *and* without leaning back

- With other shuttle models, the user must lean back to operate the shuttle. The COMFORT is the only fall arrester that operates smoothly in confined spaces or caged ladder systems.

### Improved performance

- The greater rail contact enhances the smooth operation of the shuttle.
- Made from a durable polymer, the 10 rollers last much longer than current metallic models for a minimum maintenance.

# Söll GlideLoc® systems

## Enhanced safety and greater versatility

The GlideLoc Safe Climbing System includes vertical and horizontal anchorage devices with an extensive range of accessories, thus making it possible to adapt the system to most structural profiles.



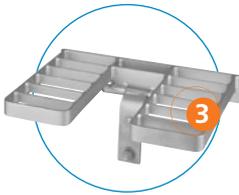
### Twisted Change-over rail

Allows climber to move safely onto a roof top or platform away from the edge.



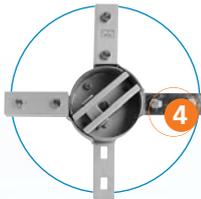
### Rotary Exit Section

Ideal for exit onto a platform where there is limited space behind the ladder.



### Folding Footrests

Provides a rest platform that conveniently folds out of the way for added safety.



### Turntable

Allows climber to transfer to horizontal track without disconnecting.



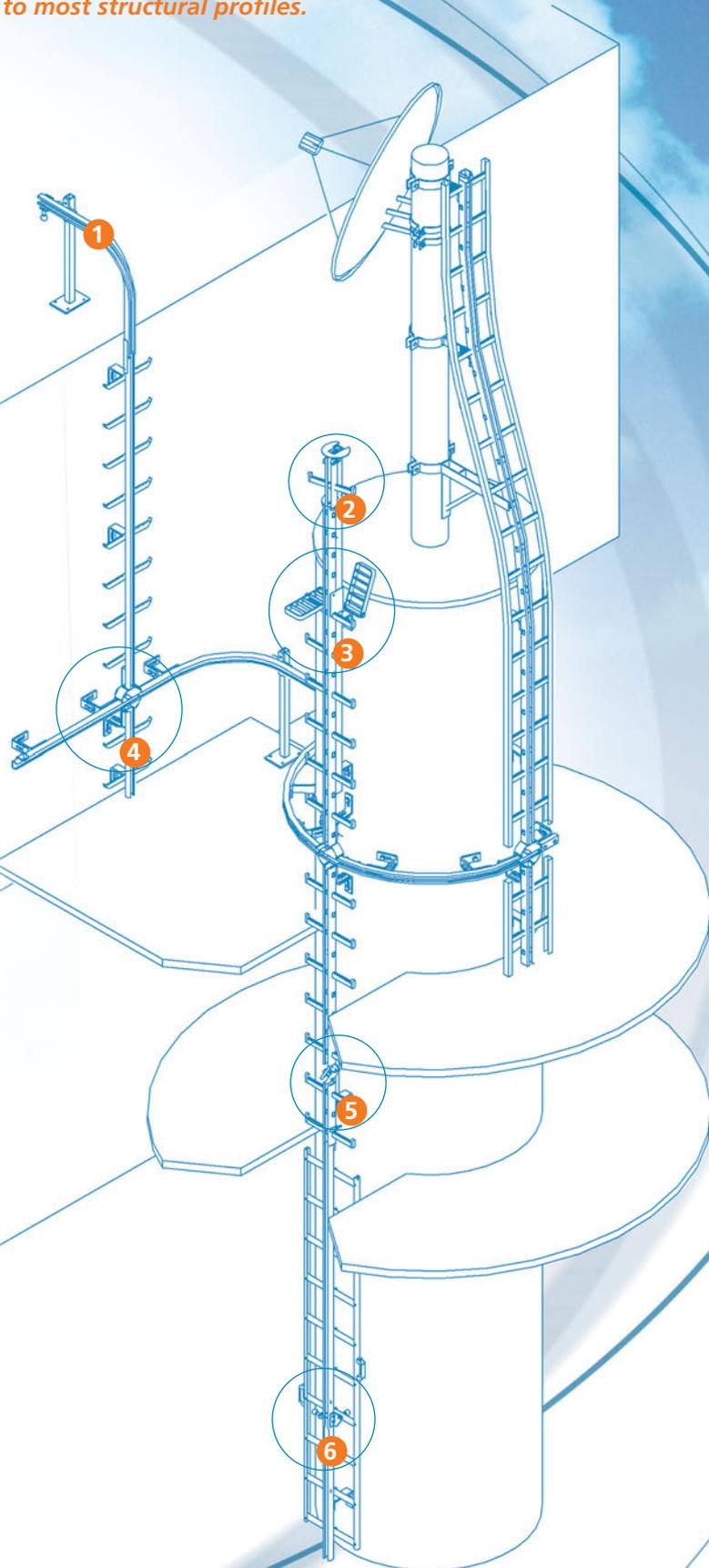
### Exit Section

Allows climber to release the shuttle from the rail.



### PivotLoc

Foldable ladder system for restricted access (alternative to the cover plate).





# MultiRail

## A versatile system for permanent horizontal access

*Like the guide rails, the MultiRail can also be adapted to the structural conditions of a particular application thus ensuring a safe horizontal access and anchorage solution for work at height.*

### Easy to assemble

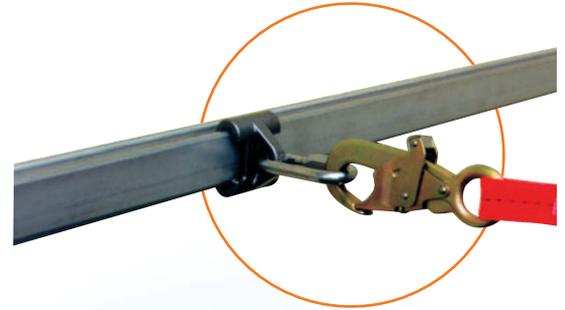
- Fixing intervals of up to 6m, on sliding brackets.
- Off-the-shelf vertical and horizontal bend pieces to adapt to any structure.
- Shuttle, rail and bracket are isolated from each other.

### Robust

- The rail can absorb retention forces of up to 100 kg without permanently deforming.
- The rail is not bent in the brackets, enabling heat expansion to be offset.
- Made from stainless steel.

### Versatile

- 3 shuttle options that each slide smoothly along the rail.
- Licensed for simultaneous use by 6 people at a time.
- The rail can also be used as a handrail for extra support.



track change



**Openable Shuttle**  
can be detached and re-attached at any point along the rail.



**Closed shuttle**  
easy to use, low cost.



**Rolling Shuttle**  
for overhead applications, e.g. for attaching a fall arrest block.

### Horizontal anchorage devices! What's the difference?

#### • Horizontal Guide rail

Ideal for overhead applications, in particular in conjunction with a fall arrest block. The climber can transfer from a GlideLoc® vertical ladder system to the guide rail without disconnecting.

#### • MultiRail

More versatile: the Multirail allows up to 6 users at a time. Ideal for large distances and harsh environments.

#### • Xenon Horizontal lifeline

Cost effective cable anchorage device for installation on a wall, overhead or on the ground. Very large fixing intervals (12 m). Easy maintenance and repair.



# Xenon

## The horizontal cable anchorage device for safety without compromise

*The Xenon Horizontal Lifeline allows greater mobility at any angle. It is suitable for any type of work at heights where a fixed safety system is required. Because of its versatility, simplicity and minimal maintenance, Xenon is the perfect tool for engineers, contractors and architects to provide secure access on new buildings or industrial sites.*

### Versatile

- Adapts to both 8 mm and 10 mm steel cable.
- Can be installed on a wall, overhead or on the ground.
- Curved and straight installation available.

### Easy to Install

- The system consists of few components.
- Fixing intervals of up to 12 m.
- Calculation software to assist at the planning stage.

### Minimum Maintenance

- Components are made from corrosion resistant stainless steel.

### Easy to Use

- Licensed for simultaneous use by up to 4 people.
- Work can be carried out on both sides of the cable.

## Xenon

Horizontal Lifeline System



#### • Shuttle



The innovative design incorporates a double automatic locking mechanism for increased safety and an oversized handle for easy transport and the use of any type of connecting device.

#### • Intermediate brackets

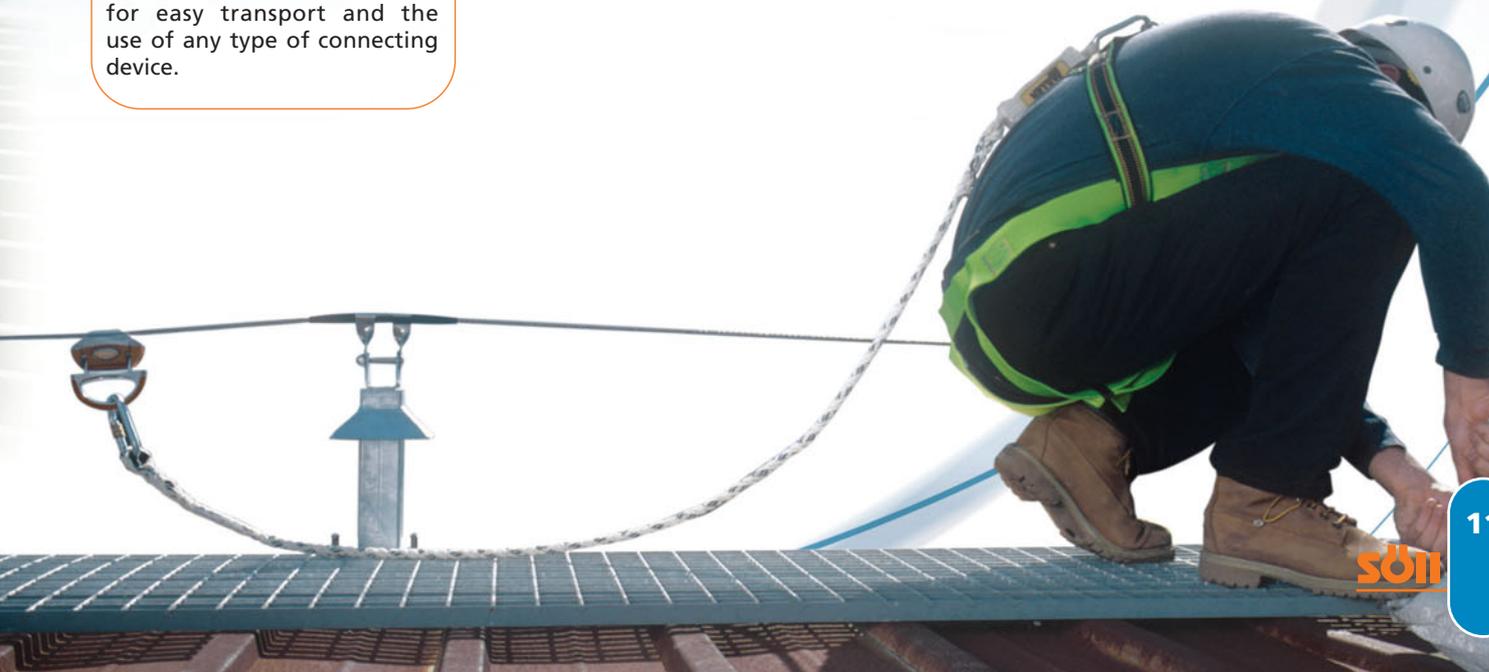


Engineered for the shuttle to glide easily and smoothly over the connection. In the event of a fall the bracket can be replaced without having to cut the cable or disconnect from the lifeline.

#### • The Multifunction shock absorber



This versatile '4 in 1' shock absorber serves as an energy dissipater, turnbuckle, tension indicator and fall indicator. Compact in design, the distance to the end bracket is reduced thus ensuring a safer entry and exit point.





# Personal Fall Protection Equipment (PPE)

A personal fall arrest system is the equipment required to secure a person to an anchorage point in such a way that a fall from height is either totally prevented or safely arrested. PPE is the personal protective equipment worn or held by the person and, in the case of fall protection, consists of a full body harness and a connecting device (lanyard, block or shuttle) attaching the harness to the anchorage device.

Individually these components will not provide protection from a fall. Used properly in conjunction with each other and with suitable training, however, they form a Personal Fall Arrest System that becomes vitally important to safety in the work place and the overall fall protection program.

## Retractable-type fall arresters and rescue devices

A retractable type fall arrester is a fall arrester with self locking device and integrated shock absorber to be used:  
- for work at critical heights between 2 and 6 m.  
- in confined spaces.

**NEW**

### Webbing fall limiters

Arrests free fall within centimeters, compact and very light. Composite or steel housing and webbing lifeline. Fast activating braking system. Ideal for low-level applications as an alternative to fall arrest lanyards. Available in lengths 3-15 m.



### Load arrest blocks

Arrests the fall of an object in the event of a load carrying device breaking (crane, chain).



### Rescue Device

Rather than arresting a fall, this device lowers the person to the ground at a constant speed (about 1m/second) Ideal for evacuations.



### Söll Cable Fall Arrest Blocks

Composite and steel housing, steel wire rope fall arrest blocks. Equipped with swivel snap hook. Composite units available in 10 m and 15 m lengths. Steel housing units available in 5 - 30 m lengths.



### Fall Arrest Block with Emergency Rescue

Steel housing with cable lifeline. Length: 15 m and 30 m. For lifting and descent.

### Söll Tripod

Aluminium tripod with corrosion resistant steel head. Height: 244 cm. Width: 150 cm.



## Safety harnesses

Safety harness combine up to 4 anchorage points to cover a range of work applications. During ascent or descent, the guided type fall arrester is connected to the external anchorage point; for work at height the connecting device is attached to the front or rear anchorage point; and the side D'rings are used with a positioning lanyard for a hands free work position. All harnesses conform to EN361 and, where applicable, EN358.



### TelGu Harness

Extra wide and padded lower back support which offers high user comfort.

In the event of a fall, the user maintains an almost vertical position and the loads on the webbing are well distributed between buttocks and back, thus reducing the risk of injury.



### TOWER Harness

Comfortable, heavy-duty harness specifically designed for work on towers.

A wide comfortable support belt to prevent back injuries. Ideal for work positioning and suspension work.



### RM Harness

Lightweight, comfort harness. 3 quick-lock buckles for easy donning.

Work in suspension is made more comfortable with a design that applies the load on the thighs and not along the entire harness. Elasticated webbing for greater comfort.



### AGU 300 ES Harness

Top of the range, multi-purpose harness.

Padded shoulder, thigh and back straps ensure greater comfort, and reduced fatigue and wear and tear. Ideal for work positioning, suspension, climbing and rescue.

## Lanyards

Available in rope or webbing, the Söll lanyards include a range of karabiners to suit the specific applications. The fall arrest lanyard limits the free fall of the worker and should be selected based on work to be performed and the work environment. The positioning lanyard is used to secure a person in a comfortable hands-free work position and should always be used in conjunction with a fall arrest device.



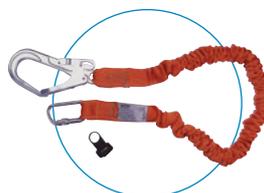
**Work positioning lanyard** with quick adjusting device to alter the length of the rope with one hand. For use on masts, ladders... Connectors attached to lateral D rings on harness



**Roof worker kit.** Quick adjusting manual rope grab with shock absorber. Vertical lifeline connected to anchor point. Shock absorber snap hook attached to the harness.



**Rope fall arrest lanyard** for back-up anchorage when moving from one system to another. The shock absorber pulls apart to reduce fall arrest forces.



**Fall Arrest Lanyard** for a secured position at work station. This innovative elasticated webbing lanyard reduces tripping hazards and fall arrest forces.

Bacou-Dalloz offers a complete range of personal fall protection equipment to suit every application. Please contact us for a full PPE product catalogue.



# AG10 Rescue Device

## Rescuing accident victims from great heights

*How do you rescue someone who has suffered an accident at a great height if ordinary means are unavailable due to the inaccessibility?*

*How do you transport the victim down again from 200 m up with just your own strength, if all that is available for the descent is a ladder?*

*These and other problems are the reason behind the AG10 rescue device. A descender device that has been used successfully for years to bring people down from elevated work places.*

*We can offer a large selection of equipment tailored to your individual needs and specific requirements.*



AG10 Hub A Descend and Rewind



# Training Courses and Seminars

## Safety is a matter of training

Training is an essential part of any safety program. The employer is responsible for ensuring that any person working at height is fully informed with regards to the correct use of PPE and systems.

Training will guarantee that the worker is safe and at ease in their working environment and therefore more productive.

Bacou-Daloz considers training to be a central part of their global fall protection offer and have a complete range of courses and seminars to meet all of your requirements.

## Training courses cover:

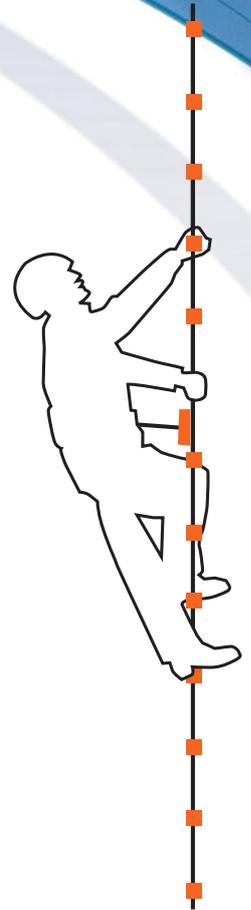
- Working at height
- Rescue
- Expert assessment
- Equipment inspection



## What can you expect from us?

- Qualified instructors
- Clearly structured training concepts
- Training appropriate to the place of work
- Manufacturer-independent training
- Personal certificate for every participant
- Training on your premises also possible

# Contact



## Contact Form

- Please contact me to arrange a meeting
- Please send me further information
  - Söll Safe Climbing Systems
  - Xenon brochure
  - MultiRail brochure
  - Rescue devices and accessories
  - Personal Fall Protection Equipment Catalogue
  - Fall Arrest Blocks brochure

Company:

Contact::

Address:

Tel:

Fax:

Email:

Photocopy this form and fax it through to the following number:  
00 49 9281 3626

**Fax: 00 49 9281 3626**

**Tel: 00 49 9281 8302 0**

**Website: [www.bacou-dalloz.com](http://www.bacou-dalloz.com)**

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# First class protection For the most demanding environments

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