

highline

climbing walls



highline extreme

Manufacturers of Highline Sports Equipment

**All mobile products are
for sale and to rent**



Highline Extreme Ltd. evolved out of one man's wish to do things differently. Being a scout leader, managing director Colin Hawes was aware that climbing and abseiling are extremely popular, and provide a great way of engaging young people. A keen mountaineer himself, he wanted to introduce young people to his love of the sport. As mountains are scarce in the Norfolk fenland he found this difficult. Surveying the market he found no mobile climbing equipment that met his aim of providing the widest possible range of experiences. It was at this point he decided to design his own.

Two years later a casual conversation alerted him to a similar lack of quality equipment in the skate-sport market. The 'Highline' skatepark (patent-pending) is a truly innovative solution to ensure that skate-sports are available to all, as explained on further pages.

The company prides itself on continual innovation and the development of new products, as illustrated by constructing such pioneering products as a bouldering igloo, a range of folding bunk beds, and most recently the ice wall. For any design problems or ideas you have, we can use our expertise to help you, and we are always looking for new challenges.

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Our walls are **easy to transport and quick to set up**. The erection process is hydraulic and can be achieved by **one person in only 15 minutes**.

The Highline wall can accommodate a vast range of climbing techniques, you can **tope rope, lead climb, abseil and boulder**.

Our attractive **high-friction climbing surface** allows the maximum variety of hold positions and routes to be achieved; thus routes for beginners and experts can be set simultaneously on the same panels. An ability to completely realign the routes avoids points of high wear and **reduces maintenance costs**.



It is the **tallest** wall on the UK market, the high gantry option is **nine metres high**.

The design allows **great scope for advertising** and to personalize the surface with decoration and/or logos, for corporate or social awareness purposes.

The highline wall is designed to be **suitable for all abilities** from the very young or less-able to expert climbers.

All **six sides of the wall can be climbed simultaneously**, maximizing throughput, which is beneficial not only to the enjoyment of the group but is more profitable if levying a charge.

The wall's **unique construction** means that it is no more intimidating to tow than a small caravan and most access problems vanish. When not in use it can be stored in a single car park space.

Because the climbing surface covers all 4 sides, this wall makes the **ideal centrepiece** for any event.

There are a number of **special features** described overleaf. An advantage of the Highline Wall being designed and built exclusively by us is that every wall can be **custom built** to your precise requirements.



Special Features

Intermediate Stance

When used with extra protection points, this feature enables multi-pitch climbing to be practiced on the wall.

There are 2 belay points on the front panel, thus a short climb, with or without an instructor at the top, can be rigged for less able climbers or smaller children to aim for.



Holds

All the holds featured on Highline climbing walls are produced by us. Therefore, the colour, shape and texture of the holds can be tailored to meet your specific requirements. It is also possible to make colour-coded climbing routes of varying difficulty, or they could be colour coded to complement a particular theme. We will be happy to discuss your individual needs.



Retractable Overhangs

All of our walls come with 2 retractable overhangs as standard; they can be made with more or none at all depending on your preferences. They are ideal for changing the difficulty of the climb therefore making the wall more versatile. As they are retractable, by having them extended or withdrawn is a quick and easy way of introducing variety into the session.

All Abilities Option

The front panel of the climbing wall can have alternative panels which when in use produce an all abilities climb.

Firstly, an extra panel, stored internally, can be attached to the bottom tier of the wall significantly reducing the gradient. This makes the climb considerably less steep and therefore easier, which is perfect for less able climbers or small children first attempting to scale the wall.

Secondly, on the middle tier the variable gradient panel allows the difficulty of the climb to again be changed, from fully extended for an easier climb, right through to fully retracted to make the panel vertical and therefore more difficult. There are also intermediate options.

The top panel, following the all abilities concept, is permanently less steep; the climb is slightly enclosed by sides which have extra holds.



The Ice Wall

Learn how to climb using this specialist equipment, as used in real ice climbing. Complete with ice axes and helmets, and attractively themed with ice graphics.

Optional as two panels or more of a regular wall, with the rest of the wall offering regular climbing.

Featuring translucent ice-like foot holds, made only by us. The expensive and time-consuming inconvenience of climbing boots and crampons is thus avoided.

This kind of wall is designed and produced exclusively by Modney concepts. It offers an activity that is new and exciting, and makes the wall even more versatile.

One benefit of an Ice-Climbing option on your wall is that it still offers 4 sides of traditional climbing for those who prefer it, or for younger children unable to attempt using ice axes. The ice-climbing panels are also still suitable for regular climbing, therefore meaning there is no compromise on usage when ice-climbing is not required.



Auto-Belays

Auto-Belay Devices (ABDs) enable single users to climb at their limit knowing that they will be safely lowered should they fall or when they reach the top of a climb. ABDs enable one person to supervise more climbers, a ratio of 1:3 is usual, this enables instructors to concentrate on coaching. They are ideal for providing a belay during repetitive 'stamina training' cycles.

ABDs can be hung from a normal climbing anchor point but should ideally be free hanging.

ABDs are suitable for single home users or the largest climbing wall. On our mobile climbing wall up to six can be used at once.

As with other makes of ABD they should not be left outside unprotected for long periods and should be dried before storage.

We offer competitive prices and generous discounts for multiple units. We aim to carry sufficient stock to despatch most orders next day.

For details of servicing requirements please contact us. Scheduled servicing means you need never be without ABDs at a critical time.





Personalising your wall - designs and logos

The panels of the wall are routed using computer controlled machinery. Therefore any design or logo can be professionally replicated.

As well as looking very striking, this also means that if it was ever decided to repaint the wall, a different colour for example, then the initial logo would not be lost, as it is 3 dimensional.

As well as logos, the entire colour scheme can be chosen as we build to requirements. This also includes holds and their colour, shape, size and texture



6.



Putting the wall up - it really is this easy....

From arrival on site you can be offering bouldering in only one minute by simply lowering the side flaps.

Alternatively the wall can be fully erected by following the steps below:

- Extend and pin the legs
- Lower the flaps
- Raise and pin the gantry (fit ropes or auto belay devices as required)
- Connect the wall to a generator or power supply
- Using the levers raise the wall in two stages
- Insert the safety pins
- Open the overhangs as required, this can be done at any time
- Check the wall and GO CLIMBING



Arrival at activity site



**Flaps down
Gantry raised**



**Middle box
lifted**



**Let's go
climbing!**

Highline Mobile Climbing Wall - Frequently Asked Questions

Why buy a mobile climbing facility?

A mobile climbing facility ensures that everyone anywhere can enjoy the climbing experience.

Being mobile, it can be shared between different groups and organizations, perfect for remote communities without access to large facilities, or for those groups hoping to purchase jointly thereby reducing funding pressure.

Mobile equipment is also an ideal solution when planning permission cannot be obtained for a fixed wall.

The equipment can be towed behind a Transit-sized van and is no more intimidating to tow than a small caravan.

Why buy a Highline Climbing Wall?

- Ours is the only wall that has a summit platform, creating that satisfying feeling of 'reaching the top'. The climbing experience is enhanced by a real sense of achievement.
- Our walls are the tallest on the UK market
- The unique design enables us to avoid the trailer length-regulations that limit the length/height of other 'lay-flat' style walls available
- The Highline walls offers bouldering, abseiling and climbing in one convenient package
- It takes up the least space when not in use, can be fitted into a single car parking space, making storage easier
- Small size when packed allows easier access to sites indoors and out

Where might we find the funds to purchase a climbing wall?

We are happy to discuss possible funding options and as a company have considerable experience in obtaining grant aid. Finance or long term rental are also available, subject to status.

What additional costs might we incur?

Every case is different; some organizations will already have suitable staff, personal equipment and insurance in place.

If starting from scratch the following should be considered:

- Helmets, harnesses, ropes etc; may cost around £2000. We have many contacts in the industry and can offer advice as well as supplying equipment at discount.
- Auto-belay devices; for those who want them are around £1000 each
- Insurance; we have recently been quoted around £1000 for a stand-alone operation. We are able to assist with risk assessment etc. for insurance quotations.
- Maintenance; budget £300 / year for this, essential replacements e.g. tyres or brakes may add £200-£300 in subsequent years
- Staff training; to run a course for 6 staff starting from scratch, including assessments £600 (excluding your staff wages). First response first aid courses, if required, around £40 / person

How could we raise income from the wall?

The Highline wall is so versatile that it is suitable for many uses; from youth groups, to charity fundraising, to an owner operator renting it out commercially.

With some of these functions it may be possible to levy a charge, either per climb or per time- period.

In this way, for daily-rental operators, our walls offer potential for great profitability; as they have the greatest throughput allowing six climbers to climb simultaneously. This is more than any other wall in the UK. With the use of auto-belay devices, this means that the wall can be safely run by two operators, and offer around 400 people per day a chance to climb.

The wall lends itself to sponsored events as it can be sign-written if required. It has an attention-grabbing presence, and will immediately increase awareness of your cause/ company/ group with professionally routed and painted logos (applied by a computer) that can span up to 7m x 4m, an impressive size. We will happily discuss your ideas and provide further advice.

Climbing is seen as a high-risk sport, how can we be sure this is safe?

Whilst no activity is ever totally safe, climbing and abseiling, when properly instructed, have a very good safety record.

All of our products are designed with the aid of the latest computer technology, independently assessed and built to the highest standards. All relevant technical and safety standards are met or exceeded.

We offer training in the use of our equipment as standard with every package sold and can advise on suitable instructor training.

What options are available and what will they cost?

Different combination and ideas have been mentioned in this brochure. Due to the wide variation in users' needs we are happy to advise individually on specification and will work with you to develop the ultimate package for your personal circumstances. Briefly, options exist in the following areas:

- Overall height and thus weight
- Surface material and finish
- Gantry style
- Hold style, size, quantity and colour in order to provide routes of different difficulty levels
- Power source
- Overhang panels, any number between none and eight

- Storage cover, colour and sign writing
- Customising to suit the needs of particular groups, e.g. the young or less-able.

What does the guarantee cover?

Our one year guarantee covers all parts and labour costs. Exclusions are wearing items, e.g. tyres and brakes.

Accidental damage and vandalism are excluded. See the guarantee document or contact us for full terms and conditions.

What information does the handbook include?

Our handbook covers all erection and dismantling procedures for the climbing wall. It is not however a 'climbing instructors technique manual'.

It also contains full details of maintenance procedures and maintenance record sheets, guarantee details and some advice for producing relevant activity rules and permission forms.

Other Products

Mobile Bouldering Walls



A mobile bouldering wall in use on a rental

Bouldering walls are mini climbing walls, and due to their lower height, foam crash mats are used in place of ropes and harnesses, to protect in case of a fall. We manufacture both fixed and mobile bouldering walls, and the mobile version is available to hire as well as buy.

As there is no need to 'kit up' the user in excessive safety gear, time and money is saved, and this also results in a higher throughput of participants. Highline mobile bouldering walls offer fun for all ages at any occasion.

The mobile walls start at 550 sq ft of bouldering area. The walls are 10 ft high and present a varied climbing surface to the user complete with overhangs. The grid of fixings integral to the panels allows for routes to be changed to suit

the capabilities of the expected user, as do the variety of our climbing holds. For users' safety a full skirt of bouldering safety mats are provided. The size of the wall can be scaled up to include a bigger climbing area, a roof, and a link to a 9m mobile climbing tower, giving 75m² of bouldering area.

Fixed Bouldering Walls

A fixed bouldering wall built by Highline for the Irish National Scout Association

Highline Fixed bouldering walls can be made up to any size, to fit any space, usually up to a maximum of 4m high. A bouldering wall is an ideal feature if space is limited, as it can be built onto an existing wall. A fixed grid of holes and fixings allows climbing holds to be fixed in place whilst people climb, but they can be moved with the aid of a key to provide a wide variety of routes. Safety/bouldering mats can also be provided by Highline at a very reasonable rate. The panels can be set up at a variety of angles to provide a 3-dimensional route with overhanging sections. The panels can be painted to suit a particular theme or have logos professionally routed and painted into them. The holds, as they are



10. The holds, as they are produced by us, can also be designed to suit your needs, with choices of colour, shape and texture.

Fixed Climbing Walls

We not only specialise in climbing equipment that is mobile. Our system of 3-dimensional climbing surfaces is infinitely variable and can be configured to fit round existing structures (columns, fire escapes etc.).

By using hard-wearing birch plywood and one of a choice of surface treatments we can produce a climbing tower that is both technically challenging and visually stimulating, whilst remaining cost effective. 3-dimensional fibreglass can also be used for small, high profile areas to add texture.

Combining our climbing and manufacturing experience, we provide quality design and construction to give you the best possible climbing wall at an affordable price.



Skateparks

Mobile skateparks are the ideal solution when space and planning permission does not allow for a fixed park.

- Can be set up in 45 minutes
- Built to highest quality – stainless or galvanized steel with Skatelite® riding surfaces
- Built to safety standards with both PAS 35 compliance and RoSPA certification
- Fully mobile
- Easy to store (in the space of a standard car park space)
- Easy to tow
- Suitable for skateboarders, in-line skaters or BMX riders.

The practice of skatesports is growing nationwide, and these types of activities are now becoming an increasingly popular way of engaging young people.

Highline also build fixed ramps, made to your specific requirements. We can advise, design, build and fit a full park or individual ramps. Any ramp or park can be designed to meet the specifications of your community. For more information on our range of ramps, rails and skateparks please contact us.



A Highline fixed half pipe in Colne, Cambridgeshire

Technical Specification

Dimensions

AS TOWED:	WHEN ERECTED:
Weight: under 2000 kg	Length: 5.00m
Length: 5.00m overall	Width: 2.10m
Width: 2.10m	Height: 9.00m
Height: 2.85m	

The footprint of the wall itself would be larger than its dimensions due to the extended stabilising legs.

Absolute minimum clearance for access doorway is 1.95m (If side flaps are removed, takes 10 mins).

All **steelwork** is galvanised, plated or stainless.

All climbing surfaces are **hardwood birch plywood** which is pressure treated, after CNC cutting and drilling, for extra durability and minimum maintenance. A variety of surface finishes are offered. A three coat non-slip finish is standard. Purchasers can specify the colour at the time of order.

Operation - walls are supplied as standard with 12v battery power. 240v operation is a low cost alternative, and the low power consumption means that operation can be by generator if required.

Our walls have been designed with the aid of the latest computer equipment and **comply** with the following **standards**:

EN12572 Artificial Climbing Structures
EN954 Safety Related Control Circuits
EN60204 Safety Related Components
EN1050 Process for Risk Assessments

Designs are **independently checked** by structural engineers. **Computer controlled machinery** is used during manufacture to ensure the highest standard of fit and finish.

The wall is designed to operate in all **weathers** and the electrical components are **IP55** rated. A storage cover can be supplied if the wall is to be stored outside and we recommend that it is always fitted when the wall is not in use, both to preserve the wall and to discourage casual climbing.

Our **guarantee** covers all components for a year against defects in material or manufacture. The **manual** supplied covers erection, lowering and maintenance of the wall, along with **risk assessments** for operators and users. As conditions of use are outside our control, operators should complete their own risk assessments to ensure that their own circumstances are covered.

Maintenance can be carried out by any competent trailer engineer or lift engineer, depending on the specific component and full details are supplied in the handbook. Maintenance record sheets are also included.

For more information please do not hesitate to contact us.

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