



HELIX

Helix Urban Hook



Helix Operations provide a complete capability for vertical access and rescue in mountain, maritime and urban environments.

We are based in the mountains of North Wales and have a heritage of over 40 years supplying tactical climbing solutions to end users. Over that time, we have worked with and become a main supplier of tactical climbing equipment to the UK MOD and have provided equipment and systems to many other nations.

The capability offered by our close relationship with DMM has been extended by partnering with manufacturers such as CTOMS, Henriksen, HQH, Protection, Rock Exotica, Highnovate and Cadex Defence to offer complete solutions for working at height in a tactical environment.

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Helix Urban Hook

Introduction

Initially designed as an urban hook for our hook and pole sets, the design brief was to create a strong hook with a subdued noise signature that bit well into surfaces and was stable when placed.

We started the process by specifying the same steel used on our ice axes. This helps the pick to remain sharp and the hook to bite well on a wide variety of surfaces. The point can be sharpened when it does eventually start to blunt.

The shape of the hook was carefully designed so that there would be three points of contact (tip and the edges of both wings) in various orientations - no matter whether the placement is on a vertical, sloping or overhung placement. The stability was further enhanced by adding rubber feet to the wings that helps reduce skidding/walking whilst also subduing noise.



The hook body is largely encased in a plastic coating that reduces noise when placing, especially when used on railings.

The placement spike fits into our range of telescopic poles as well as fitting into rifle barrels if a pole is not available. The spike is angled to allow easy release so that the placement isn't dislodged in the process.

The hook is heat treated to the same temperature as our ice axe blades, and when tested it was rated to 500kg when tip loaded and 1000kg when loaded on the apex.

The hook is available separately and also as part of our hook, pole and ladder sets that allow access to first and second story access points.

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Specification

Description	Weight	Dimensions	Tip Strength	Arch Strength
Helix Urban Hook	240g	21 x 12 x 16cm	500kg	1000kg

Arch Strength
1000kg



Tip Strength
500kg



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When a pole is unavailable a rifle can be substituted to gain access to low level walls and windows.



The placement spike is suitable for use in rifle barrels of 5.56mm or larger.

Loading



The stabilising legs should sit in contact with the wall to prevent the hook rotating and walking off the ledge.

Inspection and Maintenance

Inspection

The Helix Urban Hook should be inspected before and after each use. If there are any signs of cracks, discolouration, or deformity then the hook should be retired. If you are unsure, please discuss with your suitably qualified PPE Inspector or contact Helix Operations.

Minor surface abrasion of the urban hook in use is expected. Clean as per the below and protect with a corrosion resistant spray such as CRC 6-66.

Cleaning

Clean in warm water, not exceeding 25°C, with a mild detergent, rinse and dry thoroughly.

Maintenance

If the tip of the hook requires re-sharpening this should be done carefully with a hand file, do not use power tools or grinding wheels as the heat can affect the hardness of the steel. This procedure should remove as little material as possible to maintain a sharp point, no more than 2mm of material should be removed from the tip, at 2mm the hook should be retired.

No other part of the hook is user maintainable.




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Keep updated with Helix operations across platforms such as helixoperations.com, Tactical and Rescue Instagram accounts as well as LinkedIn. We share exciting information regarding products we manufacture ourselves as well as key products from brands we work with.


Stay informed with key innovations across all product ranges in the tactical and rescue field as well as new courses.

Our website lists our entire range, including any certifications, technical specifications, and variations of products. You can also find information regarding courses and training, including our accreditation.

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