USER MANUAL

FORMWORK HOOK CLAMPS – HAS

DATE OF MANUFACTURE: MM.RRRR

SERIAL NUMBER: HAS 001

Risk category 3

For one user only

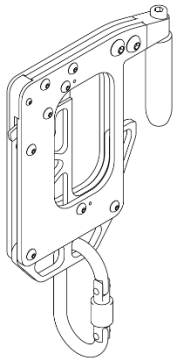
Maximum load allowed – see user manual for the fall absorber used

100 kg or 140 kg – depending on the equipment used for work in suspended position

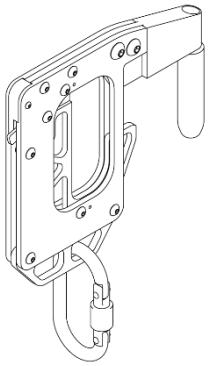
Read the manual carefully before use!

ROCK MASTER	Manufacturer's logo
HAS	Manufacturer's trade name
1 person Max. 100 kg Max. 140 kg	Maximum load allowed – depending on the equipment used for work in suspended position
HAS 000 06.2021	Serial number Month and year of manufacture
CE 1463	Number of the notified body responsible for quality control of the manufacturing process
EN 795:2012 class B	Number of the EU standard applicable to the device
	An indication to read the user manual before using the device

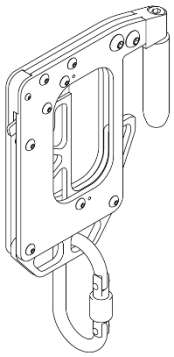
HOOK CLAMP FOR FRAMAX TYPE FORMWORK – HAS-D



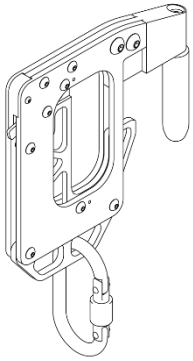
HOOK CLAMP FOR FRAMAX TYPE FORMWORK – HAS-Pp



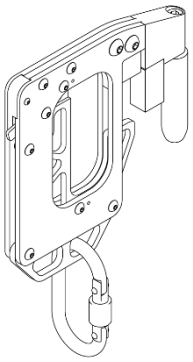
HOOK CLAMP FOR ORMA TYPE FORMWORK – HAS-U



HOOK CLAMP FOR MANTO TYPE FORMWORK – HAS-H



HOOK CLAMP FOR MANTO TYPE FORMWORK – HAS-HO



THE DESCRIPTION AND DESIGN OF THE DEVICE

The device complies with EN 795B:2012, which means that it is a temporary anchor point installed in a way that prevents accidental disconnection from the structural element to which it is mounted. However, it is possible to disconnect them intentionally from the structure without the use of additional tools.

HAS hook clamps developed by CBR Rock Master are designed for use on formwork walls. Each clamp has two holes at the bottom that serve as anchor points for connectors conforming to EN362 – both for the energy absorbing lanyard and the lanyard used for suspension work. They provide the user with a continuous belay during work or traversing the formwork wall.

Anchor hook clamps connect to the horizontal ribs of the formwork with particularly shaped attachments, the shape of which is matched to a particular model of formwork, depending on the manufacturer. The solution developed at CBR Rock Master can be used with formwork from Doka, Hünnebeck, Ulma and Peri.

HAS hook clamps have a two-latch locking mechanism, which prevents their accidental release during operation.

The hook clamps are attached to the ends of a double shock absorbing lanyard, using connectors conforming to EN362. To attach the shock absorbing lanyard, the hole located in the front part of the hoock clamp is used. To use the hook clamps for suspension work, one needs to attach the lanyard and connectors to the hole closest to the user.

The hook clamps are very lightweight; thanks to this they are comfortable to use and do not cause stress during work while providing both continuous belay and the possibility to perform suspension work.

Address:
Krolewska 94/11
30 – 079 Krakow

ROCK MASTER
SAFE WORK AT HEIGHT

Contact us on:
office@rockmaster.eu
+48 12 290 30 35

GENERAL RULES FOR USING PROTECTIVE EQUIPMENT FOR SAFE WORK AT HEIGHT

INTRODUCTION

- Fall protection equipment should only be used by persons in good health and shape, with no contraindications to performing work at height and who have been adequately trained by a competent and authorized representative of the manufacturer.
- Fall protection equipment should only be used as indicated and designed. The incorrect use or incorrect combination of fall protection equipment can cause severe personal injury or death.
- It is strictly forbidden to modify the device or tamper with it. Any such action shall void the warranty.
- All repairs must be undertaken only by the manufacturer or by persons authorized by said manufacturer.
- Before commencing work using fall protection equipment it is essential that a rescue procedure, and, first and foremost, an adequate set of rescue equipment are in place.
- Work using fall protection equipment is to be carried out only under the guidance of a competent supervisor.

Using the device

- Before commencing work, the user has to:
  - read the user manual carefully
  - learn (and train) all basic rescue procedures and techniques
  - check the condition of the device (all parts working correctly, no damage, no wear and tear, no corrosion/'rust, no abrasions) and the correct assembly of all parts of the system as well as whether all parts fulfill the requirements of corresponding standards. The technical condition of all parts of the protection system is to be checked upon completing work as well.
  - check, whether parts of the system do not interfere with one another
- It is forbidden to use the equipment if any of the parts does not work correctly.
- The only allowed PPE for fall arrest are harnesses according to EN 361.
- It is only allowed to attach the fall absorbing lanyard to the harness at the connection point marked with the capital A.
- While working with fall protection equipment, proper anchor points according to EN 795 have to be used; there has to be sufficient space below the worker, exceeding the length of fully deployed fall absorber.
- The fall protection system should be fitted and fastened in a way that reduces the risk of falls and/or their potential length to a minimum. Also the distance required for fall absorption (the length of the deployed fall absorber) and the fall distance have to be considered.
- Exercise caution while working in difficult or demanding conditions: avoid extreme temperatures and weather as well as caustic substances.
- After a fall has been arrested, the device is to be retired! A device that has been retired is to be destroyed!, i.e. rendered non-usable.
- If there are any doubts about the technical condition of a piece of equipment, it should be retired. Such a device can be reused only after a full inspection has been carried out by the manufacturer and a written approval has been issued.

Inspection and maintenance

- The device functioning correctly is crucial to preserving the user's health and safety; therefore, regular inspections are necessary.
- An inspection is to be carried out at least once per year (at least every 12 months). An inspection can be carried out by a competent authorized person; for more complex devices, an inspection is to be carried out by the manufacturer or a person authorized by the same in writing. Check the technical condition of the device as well as the function and all the markings, which need to be clearly visible. If the result of the inspection is unsatisfactory, the device should be retired.
- All information in regard to the equipment, including the periodic inspection results, shall be recorded in its designated logbook by the persons responsible for storing and maintenance. It is forbidden to use any equipment if its corresponding logbook has not been maintained properly and/or does not contain crucial information, if documents are missing or incomplete or if the equipment's history is unclear/unknown.
- The equipment's lifespan depends on environmental conditions, any harmful factors present, the intensity of use, and storage conditions.
- The lifetime of metal parts is not limited, as long as regular periodic inspections are carried out and recorded by competent persons.
- A device is to be retired if the maximum lifetime given by the manufacturer has been exceeded. The manufacturer can retroactively change the lifetime of a specific type of product and publish this information eg. on their website.
- To clean the device, wash it with clear, lukewarm water (up to 30°C), using a soft wipe; for more persistent dirt, use natural soap. Leave the device to dry in room temperature.
- The device can be sanitized using spray disinfectants.
- Only silicon-based spray grease can be applied to metal devices, if needed. Any excessive grease on the surface touching the rope or on the outside can be removed using a clean wipe.

Storing and transporting

- To ensure the longevity of equipment, when not in use, store it in its original packaging in a dry, ventilated place, at room temperature.
- Make sure to avoid exposure to dust and salty environments, high temperatures, harmful and corrosive substances, abrasive and sharp surfaces and edges when storing and transporting the equipment.
- Do not leave the equipment out where it is directly exposed to sunlight.

Address:
Krolewska 94/11
30 – 079 Krakow

ROCK MASTER
SAFE WORK AT HEIGHT

Contact us on:
office@rockmaster.eu
+48 12 290 30 35

DETAILED INSTRUCTIONS FOR USE

Before use, familiarize yourself with the below information on the correct handling of the B type anchoring device for use on formwork; the information complements the general instructions for use of fall protection equipment and/or builds on them.

The B type anchoring device for use on formwork can be used in combination with other parts and devices to create a full fall protection system.

Scope of use:

Applicable standard: The anchor device conforms to EN 795B:2012.

Load limit: one person

Maximum weight of user depends on the fall absorbing lanyard used.

Allowed temperature range: -30°C ÷ +50°C

NOTE

Each piece of equipment should be accompanied by a set of instructions for its use, maintenance and periodic inspections and repairs in the language of the future user's country.

LIFETIME AND INSPECTIONS

Standard wear and tear is to be expected when the device is used as designed and not exposed to any harmful environmental factors. The lifetime of the device is not limited as per manufacturer's instructions, as long as regular recorded inspections by competent persons are performed.

The device should be inspected before and after every use by the user.

That notwithstanding, the device has to be inspected at least once every 12 months. The inspection is to be carried out by the manufacturer or a person authorized by the same in writing and is to follow the checklist provided by the manufacturer.

If a fall has been arrested, the anchoring device is to be retired immediately.

Installation:

The person performing the installation work (user) must be equipped with the proper fall protection/fall arrest PPE before commencing any work: a harness, a helmet, a double shock absorbing lanyard (Y or V) with appropriate connectors.

The recommended PPE setup is as follows:

1. For users weighing max. 100 kg (incl. equipment) – a double shock absorbing lanyard with screw-lock carabiners.
   - 1.1. An energy absorber for up to 140 kg.
   - 1.2. Between the hook clamp and the energy absorber: a lanyard with connectors of at least 58 cm
   - 1.3. A connector for suspension work (hook + maillon connector) of at least 25 cm
2. For users weighing max. 140 kg (incl. equipment) – a double shock absorbing lanyard with screw-lock carabiners.
   - 2.1. An energy absorber for up to 140 kg.
   - 2.2. Between the hook clamp and the energy absorber: a lanyard with connectors of at least 58 cm
   - 2.3. A connector for suspension work (sling with two screw-lock carabiners or a hook + maillon connector) of at least 40 cm

3. Equipment for suspension work according to the user's weight (including equipment):

Both the safety lanyard as well as the lanyard for suspension work are connected to the harness using connectors according to EN 362.

- 3.1. A suspending hook with a swivel, attached to the anchor point with a maillon connector – recommended for users of max. 100 kgs weight (incl. equipment):

- 3.2. A 25 cm long tape sling with a small hook or a screw gate connector, attached to the anchor point with a maillon connector – recommended for users of max. 140 kgs weight (incl. equipment):

Address:
Krolewska 94/11
30 – 079 Krakow

ROCK MASTER
SAFE WORK AT HEIGHT

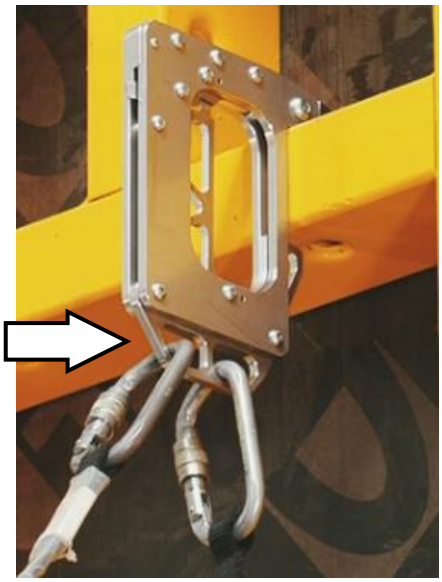
Contact us on:
office@rockmaster.eu
+48 12 290 30 35

4. Before commencing work, select the proper type of hook clamp, according to the formwork wall. The 2 hook clamps should then be clipped into each end of the double energy absorbing lanyard using connectors. This setup will provide belay while moving along the formwork wall or up a portable ladder to reach the work site. If no portable ladder will be used, it is necessary to also prepare a setup for suspension work – use the appropriate setup as described and clip it into the holes of the hook clamps.

NOTE:
It is allowed to use the HAS hook in a horizontal arrangement, however, only following all the rules described above.

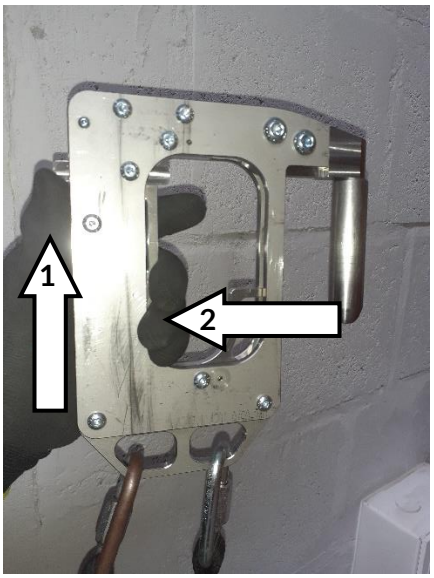
NOTE:

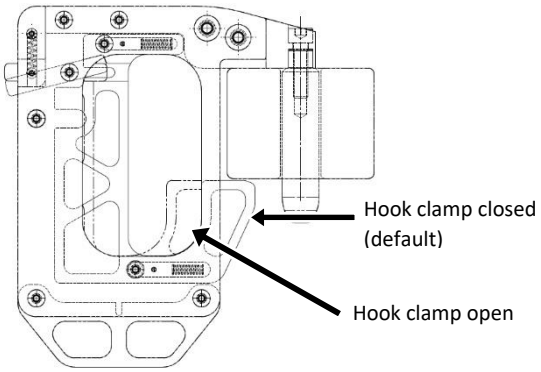
The setup for suspension work must be clipped into the opening indicated by the manufacturer – i.e. the one closest to the user when the hook clamp is attached to the formwork. After connecting the setup for suspension work, lock the upper maillon connector using a wrench, so that it cannot open spontaneously.



Attachment point for the setup for suspension work

5. To open a hook clamp, grab it and use your thumb to push the latch up and then simultaneously slide it into the clamp housing and pull the sliding lock /the inner handle/ of the hook:





Opening and closing the hook clamp

When the sliding lock /inner handle/ of the hook clamp is pushed into the housing, it is possible to insert the pin into the openings and the lower sliding part locks the hook clamp in place on the formwork ribs. When the hook clamp is simultaneously used as a belay device and as a grab, it is of utmost importance to release the handle for a moment, thus locking it in position for use as belay. After locking the handle you can use the hook clamp as a grab, not losing its belaying properties.

NOTE:

When the handle is fully retracted, the hook clamp cannot be used as belay!

PREPARING HOOK CLAMPS FOR PARTICULAR FORMWORK WALL TYPES:

NOTE:

Always make sure that the appropriate type of hook clamp is used for the given formwork; using the wrong type of hook clamp may lead to the pin not inserting correctly into the openings in the formwork or the locking mechanism of the hook not working as designed, thus creating a fall risk!

An example of a wrong type of hook clamp being used

Address:
Krolewska 94/11
30 – 079 Krakow

ROCK MASTER
SAFE WORK AT HEIGHT

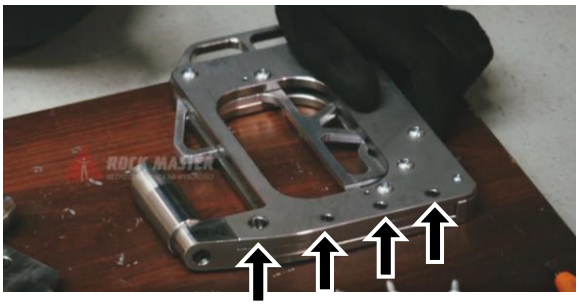
Contact us on:
office@rockmaster.eu
+48 12 290 30 35

There are five variants of hook clamp pins available, according to the formwork wall in use. The picture below shows Orma, Trio, Framax, Manto HAS-H and Manto HAS-HO:

Hook clamp pins are swapped out using a set of hex allen keys, by loosening the four screws and taking out the pin and replacing it with the appropriate pin for the formwork wall at hand.

NOTE:

Hook clamp pins are to be swapped out only by a competent person, authorized by the manufacturer.



NOTE:

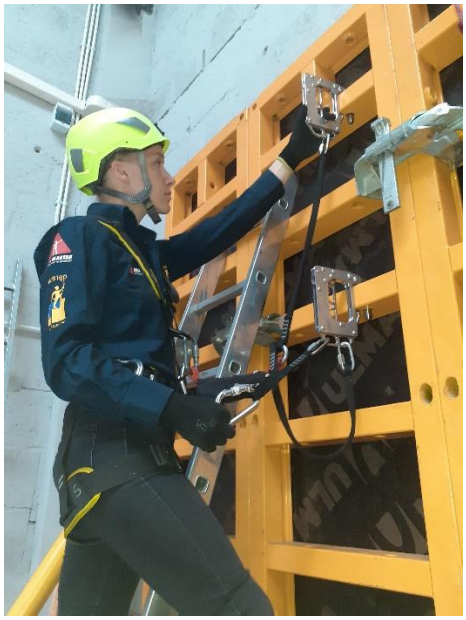
Before each use, make sure that all screws are tightened correctly, according to the indicator.

It is forbidden to climb without releasing the handle on the lock – no belay!

If the lock of the hook clamp is released, full belay is provided.

CHOOSING THE WORK METHOD

1. Belaying and work at height using a portable ladder for access
   1.1. While climbing the ladder, change the position of hook clamps, moving it in succession from one set of holes in the horizontal formwork ribs to another, always making sure that the low hook clamp is not placed lower than the belaying point on the harness. Remember to place the upper hook clamp as high as possible overhead, to keep the fall factor as low as possible. After you've reached the work site, you can commence work, making sure that both clamp hooks sit as high as possible over your head.



2. Belaying and work at height in suspension on formwork walls

Place both hooks, clipping them into the formwork and climb, using them as grabs. If using the hook clamp is simultaneously used as a belay device and as a grab, it is of utmost importance to release the handle for a moment, thus locking it in position for use as belay.

NOTE:

If using the hook clamps for suspension work, place them as far apart as possible in the vertical; the distance between the clamps must not be less than 60 cm. This means, you should consider only every second formwork rib as anchor point for your hook clamps. It is not allowed to exceed the values mentioned above; the fall factor must be kept below 1 at all times. Anything else poses an injury risk when a fall is arrested.

Address:
Krolewska 94/11
30 – 079 Krakow

ROCK MASTER
SAFE WORK AT HEIGHT

Contact us on:
office@rockmaster.eu
+48 12 290 30 35

After locking the handle you can use the hook clamp as a grab, not losing its belaying properties.

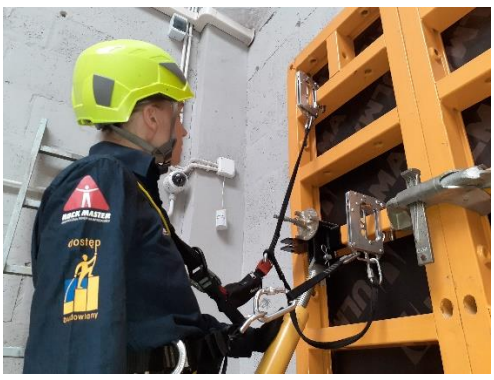
When the handle is fully retracted, the hook clamp cannot be used as belay!

After you've reached the work site, set up your system for suspension work.

NOTE:

Always use the hook clamp sitting lower as the base of your setup!

Grab the connector at the end of your equipment for suspension work connected to an anchor point on the hook clamp sitting lower on the formwork structure and attach it to the central point on your harness. Put load on the short connection created in this way. Note: it is only correct to attach the equipment for suspension work to the hook clamp sitting lower. It is not allowed to suspend oneself off a hook clamp without belaying effectively from the other one!



In this way, the fall factor is kept to a minimum and three connection points to the structure are present at all times while carrying out work on the formwork wall where both hands are employed, such as assembling and disassembling transport hooks or fastening tie bars.

NOTE:

Due to suspension work and fall arrest system being used simultaneously, it is important to keep the minimum distances between the hook clamps on the formwork structure.

No matter what equipment is used for suspension work, the required vertical distance between the hook clamps should be as large as possible!

If using the hook clamps for suspension work, make sure that the suspension equipment is attached to the hole on the hook clamp that is closer to the user's body.

It is wrong to attach it to the fall arrest lanyard!

3. Belaying and work at height on a platform

If you need to lean outside the guardrail or the guardrail is still being constructed, the fall risk is significant. In this case, one can use a hook clamp connected to a fall arrest lanyard. The hook clamp should be placed as high as possible on the formwork structure and the fall arrest lanyard should be as short as possible.

FORMWORK HOOK CLAMP – LOGBOOK

The owner and sole user of the equipment is responsible for keeping to logbook updated and complete. Before the equipment is first issued, the logbook should be completed by the person responsible for stock keeping with all necessary information in regard to the equipment (name, type, serial number, date of purchase, catalogue number, the manufacturer's name). Information on periodic inspections is entered by the manufacturer or their authorized representative.

NOTE:

It is forbidden to use any PPE for which no logbook is present or is incomplete.

DEVICE NAME:	
TYPE:	**SERIAL NUMBER:**
MANUFACTURED BY: ROCK MASTER SAFE WORK AT HEIGHT	
DATE OF MANUFACTURE:	**FIRST USED ON:**
DATE OF PURCHASE:	**LAST USED ON:**

INSPECTION AND REPAIR HISTORY

NUMBER	DATE	REASON	RESULT	DATE OF THE NEXT INSPECTION	INSPECTOR'S SIGNATURE
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

Address:
Krolewska 94/11
30 – 079 Krakow

ROCK MASTER SAFE WORK AT HEIGHT

Contact us on:
office@rockmaster.eu
+48 12 290 30 35

FORMWORK HOOK CLAMP – WARRANTY CARD

THANK YOU FOR PURCHASING A ROCK MASTER PRODUCT

Congratulations on the purchase of your new equipment. Please remember that to enjoy it safely and for a long time it is crucial to use it correctly, according to its design and purpose.

Should you need to use services covered by the warranty, please get in touch directly with the manufacturer or with a customer service and/or repair shop authorized by the manufacturer.

Before reaching out for service, please read the manual carefully.

DEVICE NAME:	
TYPE:	**SERIAL NUMBER:**
MANUFACTURED BY: ROCK MASTER SAFE WORK AT HEIGHT	
DATE OF MANUFACTURE:	**DATE OF PURCHASE:**
WARRANTY PERIOD **12 months from purchase, until:**	

WARRANTY CONDITIONS

1. Rock Master sp. z o. o. sp. k. provides a 12 month warranty for the correct function of the device, starting from purchase.
2. The warranty only covers manufacturing faults.
3. Any fault discovered should be reported to the manufacturer or to a customer service and/or repair shop authorized by the manufacturer.
4. The manufacturer guarantees that any faults discovered during the warranty period will be checked at no cost and removed at no cost within 14 or 21 days since they were reported. The warranty period is extended by the time needed for repairs.
5. In case of any complaints, it is only possible to replace the faulty product if the repairs undertaken are unsuccessful and the manufacturer deems the product impossible to repair.
6. The warranty card is only valid together with proof of purchase and is the only basis for any warranty service.
7. When purchasing, you declare to have read and accepted the warranty conditions.

NOT COVERED BY THE WARRANTY

1. The product is to be used only as designed, any other use is not covered by the warranty.
2. Any repairs by unauthorized persons, tampering or modifications void the warranty.
3. Any normal wear and tear (scrapes, scratches, slight chafing of the protective or decorative coating) is not covered by the warranty.
4. The warranty does not cover normal maintenance work required for the device to function properly or inspections necessary during the warranty period.

REPAIRS

DATE OF REPORT	DATE OF REPAIRS	REPAIRS UNDERTAKEN AND/OR PARTS REPLACED	SERVICE CENTRE – SIGNATURE AND STAMP

Address:
Krolewska 94/11
30 – 079 Krakow

ROCK MASTER SAFE WORK AT HEIGHT

Contact us on:
office@rockmaster.eu
+48 12 290 30 35