



Tools for data recovery experts

A Guide for using the HddSurgery™ heads inspection tools:

- ***Head Holder***
- ***Head Holder +***

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1. Introduction

This guide is intended to show the user a quick and proper way of assembling and using the HddSurgery™ Head Holder and Head Holder +.

These tools are designed to enable the data recovery specialist to safely inspect the heads under any type of a microscope. They give the possibility of various positional adjustments, while keeping the hands of the specialist free, eliminating downsides like hand tremors and other similar effects.

HddSurgery™ is not responsible for any eventual damage caused by usage of our tools. HddSurgery™ is not responsible for the data stored on the patient or donor hard drives.

2. HddSurgery™ Head Holder Assistive Tool

2.1 Description

HddSurgery™ **Head Holder** assistive tools represent our company's effort to enhance every aspect of the job a data recovery expert performs on a daily basis. The tools come in a form of a rigid stainless steel stand, on which the positional posts are mounted. Changing the position of the posts is enabled through using the swivel post clamp, allowing precise adjustments in height, reach and angle.



Picture 2.1. The Head Holder Assistive Tool

Beside regular version of the tool (Head Holder) there is an extended version (Head Holder +) which has additional parts.

The main part of the tool is the *Head Holder Assembly* (the Head Holder + contains 2 of those assemblies), and it is used to hold the head stack assembly while the heads are being inspected. This is done by tightening the knurled screw, which applies pressure to the back side of the heads (voice coil area). The contact areas are covered with a special type of rubber, allowing a firm grip but at the same time making sure no damage is done to the head stack assembly.



Picture 2.2. The Head Holder Assembly

2.2 Part list

The Head Holder contains the following parts:

1. Legs - 4 pcs
2. Vertical post - 1 pcs
3. Lateral post - 1 pcs
4. Swivel clamp - 1 pcs
5. Tightening cylinder - 1 pcs
6. Tightening nut - 1 pcs
7. Head Holder Assembly - 1 pcs
8. Storing base - 1 pcs

The Head Holder + contains additional parts:

10. Base - 1 pcs
11. Additional Head Holder Assembly - 1 pcs



Picture 2.4.1 Head Holder



Picture 2.4.2 Head Holder +

3. Assembling the tools

3.1 Unboxing

The tools come in a multi-layer transport wooden boxes. After removing the lid of a box, carefully extract the wooden layers containing the tool parts. Once all the tool parts are out of the box we can continue with the assembling.

3.2 Tool assembling

We will now cover the assembling procedure step by step, along with the pictures of those steps finished. More details will be shown in the instructional video which you can find on our webpage.

Start with the base. Turn it facing downwards and screw the legs in the appropriate positions.



Picture 3.2. Base + Legs

Turn the base facing up, attach the vertical post to the given slot and screw the supplied m5 screw to tighten and secure the position of the vertical post.



Picture 3.3. Base + Vertical post

The next step is to add the swivel post clamp to the assembly. Unwind the swivel post clamp's handle a bit, slide it down the vertical post using the $\varnothing 12\text{mm}$ hole until it reaches the middle and then tighten the handle again.



Picture 3.4. Assembly with the swivel post clamp added

The lateral post is now added by unwinding the swivel post clamp's handle just enough to slide the lateral post through the $\varnothing 10\text{mm}$ hole until it is midway through. Tighten the swivel post clamp's handle again to secure the position of the posts.



Picture 3.5. Adding the lateral post

The tightening cylinder is now screwed to the lateral post with the tightening nut already screwed to it.



Picture 3.6. Adding the tightening cylinder

Finally, we add the *Head Holder Assembly* by simply sliding its axle in the tightening cylinder. The *Head Holder Assembly* is secured with a magnet which is inside the horizontal post, which allows easy rotation and, in the same time, secures the *Head Holder Assembly* from sliding off the post.

In order to prevent the rotation of the *Head Holder Assembly*, tighten the tightening nut.

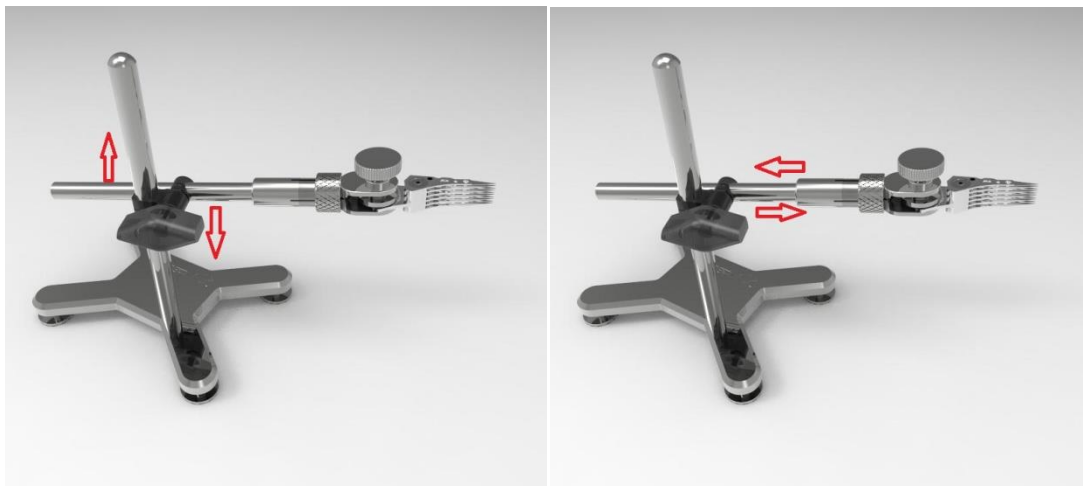


Picture 3.7. Fully assembled Head Holder Assistive tool.

4. Using the tool

Place the Head Holder Assistive Tool next to the microscope and adjust the position of the vertical and lateral posts in such way that the Head Holder Assembly reaches the space which you can see through the microscope.

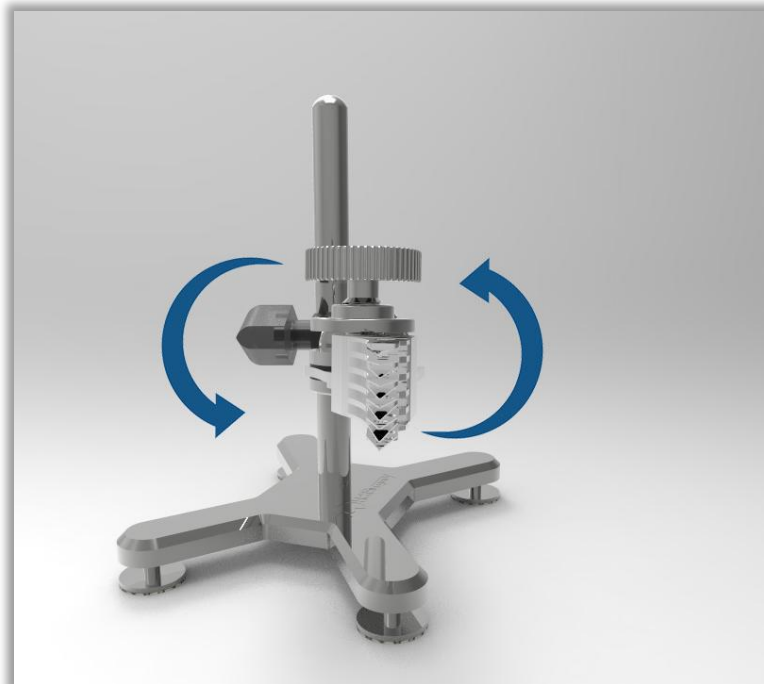
You can adjust the height, the reach and the angle of the assembly by loosening up the swivel post clamp and positioning the posts as you will. Tighten the clamp afterwards and your desired position is now secured.



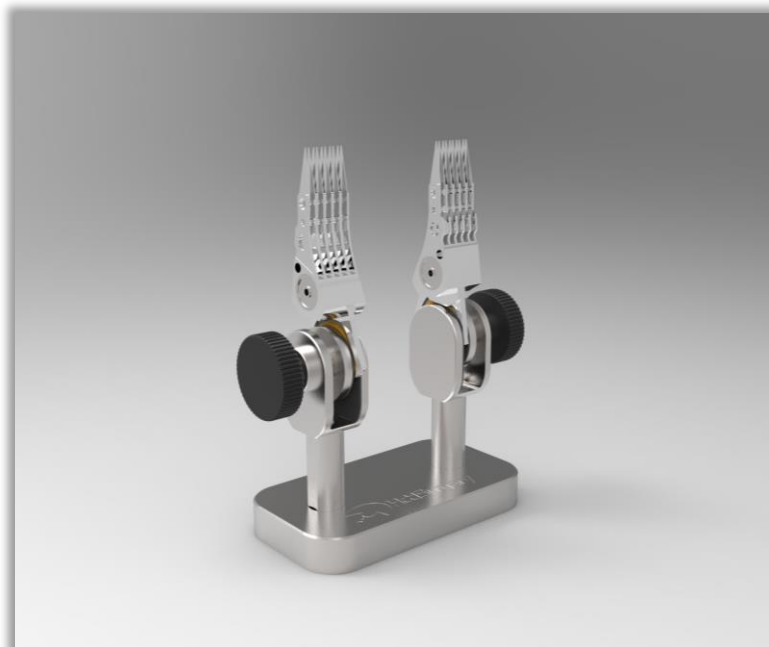
Picture 4.1. Vertical and Lateral positioning of the tool.

Take the head stack assembly you wish to inspect/clean and position it between the plates of the Head Holder Assembly. While still holding the head stack assembly in your hand, start screwing the knurled screw down until you feel it reaching the head stack assembly. Tighten it up just a little bit and your head stack assembly is now secured in the desired position and ready for the inspection under the microscope.

If you want to change the viewing angle, simply loosen up the tightening nut just a little bit and you can now rotate the *Head Holding Assembly* until you reach the desired position.



4.2. The "roll" movement of the Head Holder Assembly



4.3. Additional Head Holder Assembly and a base which comes for Head Holder +

5. Conclusion

This guide was written by HDDSurgery™ team and it is based on our experience acquired during the process of development, design and testing.

HddSurgery™ is not responsible for any possible consequential damage, including the loss or recovery of data or any other damage made by using or working with HddSurgery™ tools.

You can find more information about these tools and many other tools used for data recovery on our website:

<http://www.hddsurgery.com/>

Also you can watch the videos that show how these tool work on our YouTube channel:

<http://www.youtube.com/user/HddSurgery>

If you have any doubts or questions regarding use of our tools, you can contact our support team any time:

support@hddsurgery.com