



*Tools for data recovery experts*

## ***Guide for using HddSurgery™ Helium opener - set***

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### ■ ***Helium Opener - set***

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# 1. Introduction

The aim of this guide is to quickly and easily demonstrate how to properly handle our HddSurgery™ - Helium Opener tool.

The tool is designed to facilitate the process of opening helium hard drives and its use is exclusive for this purpose. The application of the data recovery tool simplifies the process of opening the helium hard drive for the engineer, making it safer, simpler and easier. The tool serves to cut the aluminum membrane after which the screws holding the disc cover are accessible.

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™ Helium Opener - set

### 2.1 Description

HddSurgery™ Helium Opener set is made of metal, consists of several different parts.

Two stainless steel levers, into which four removable chisel knives are screwed. Depending on the stage of opening process, chisel knives are removable. Chisel knives available in this set vary from thinner to wider.



*2.1 Picture the Helium Opener – set*

Lever arms are covered on both sides with patterns in order to deliver, better grip, safe handling while cutting process, and to avoid slipping out of engineer hands.



*2.2 Lever grips*

## 2.2 Part List

The Helium Opener tool set consists of the following parts:

1. Levers – pair
2. Thin chisel knives – pair
3. Middle chisel knife
4. Wide chisel knife



*Picture 2.3 Helium Opener part list*

## 3. Supported models

### HDDS Helium Opener Supported models

This tool supports all modern helium hard drive covered with aluminum membrane



## 4. Assembling the tool

When not in use, the tools should always be kept in a wooden box delivered with the tools. This way of keeping the tools prevents any possible damage which could appear when not handled properly.

Start with lever, turn it over to the side where chisel knife screws in. Take the chisel knife and screw into the lever.



*Picture 4.1. HDDS Helium Opener assembling*

Now the tool is ready for membrane cutting process

## 5. Using the tool

### Step 1 – Preparing the drive

First thing is to make starting point, by incision with using a small chisel knife, and making a small hole into the membrane.

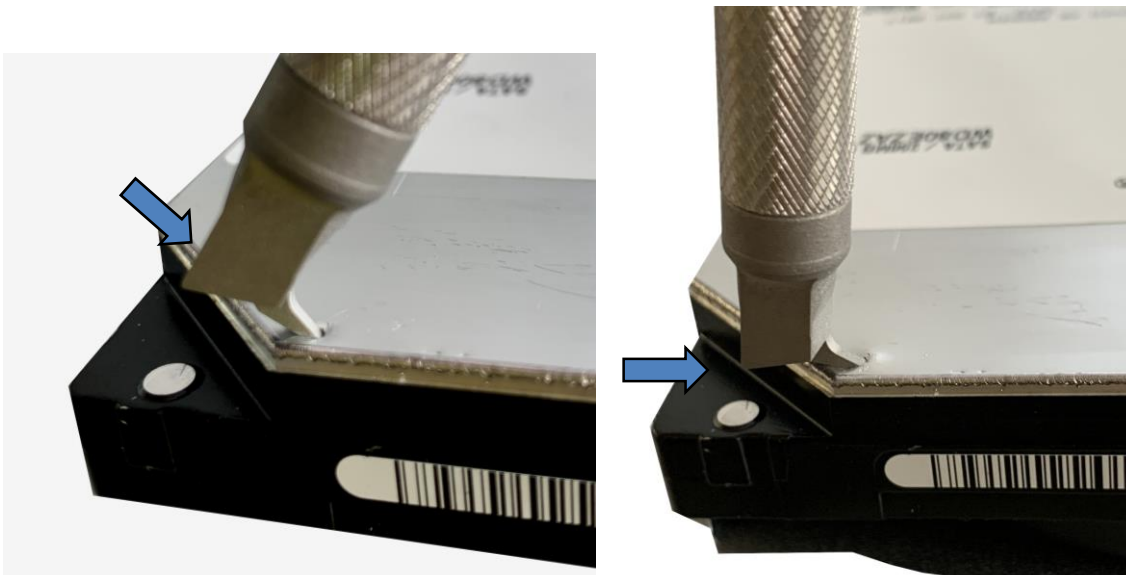


*Picture 5.1. Preparing the drive*



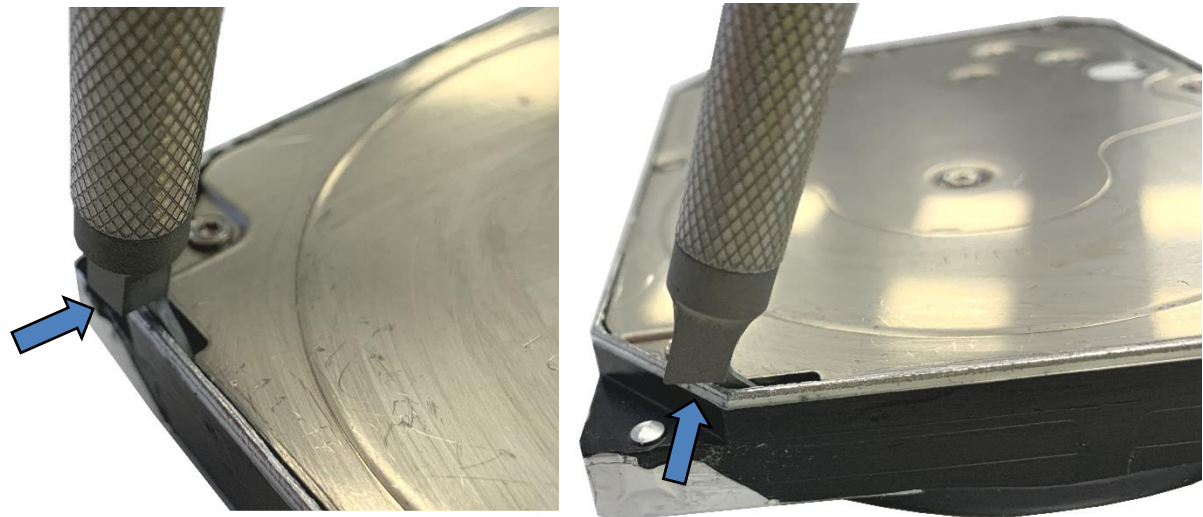
Picture 5.2. Pointing tiny chisel blade

The tool has to penetrate the aluminum membrane with its blade located at the top



Picture 5.3. Tiny blade at the act

The tool is approaching the starting point by cutting into the intended area on the disk



Picture 5.4. Tiny blade at the act

It is designed to use the inner edge of the disc as a support during cutting the aluminum membrane.



**“CAUTION”** make sure that the chisel knife does not get under the thin lid. It is designed to be used only for cutting the aluminum membrane. Otherwise chisel might be broken.



Picture 5.5. *Bade at the act*

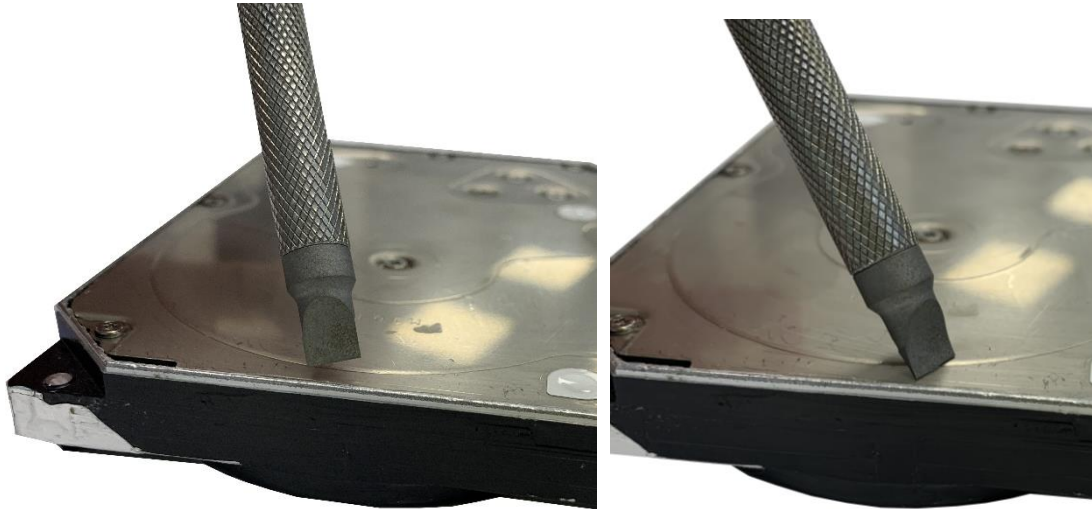
Blade is creating a lever by standing on the outer edge of the hard drive



Picture 5.6. *Cutting with wide chisel knife*

After few lever pull ups change from tiny chisel knife to mid wider one, and continue the cutting process.

\*Depending on which suits you better, our recommendation is to continue with a wider chisel.



*Picture 5.7. Wide chisel knife*

In some cases if the tool gets stuck, encounters obstacles and cannot continue the process, gently pull out the tool, replace the chisels with an extra wide one and continue for a few steps, then turn back to the medium width chisel.





*Picture 5.8. Winding the membrane using the pliers*

In the last step in order to remove aluminum membrane from the top use the long-nose pliers to wind the membrane.

## 6. 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 HDDS Sea 3.5" Ramp 4A, you can contact our support team any time:

[support@hddsurgery.com](mailto:support@hddsurgery.com)