Tools for data recovery experts

A Guide for using the HddSurgery™ platter storing tools:

- ***HDDS Platter Stand Tool***

HDDSURGERY
Milutina Milankovića 1E, 11070 Belgrade, Serbia
phone +381 11 268 35 26
www.hddsurgery.com
support@hddsurgery.com

Table of contents:

1. Introduction

This guide is intended to show the user a quick and proper way of assembling and using the HddSurgery™ Platter Stand Tool.

HddSurgery™ **Platter Stand Tool** represents our company's further effort to enhance every aspect of the job a data recovery expert performs on a daily basis. This tool is designed to enable the data recovery specialist to safely store and inspect the platters while they are removed from the hard drive assembly.

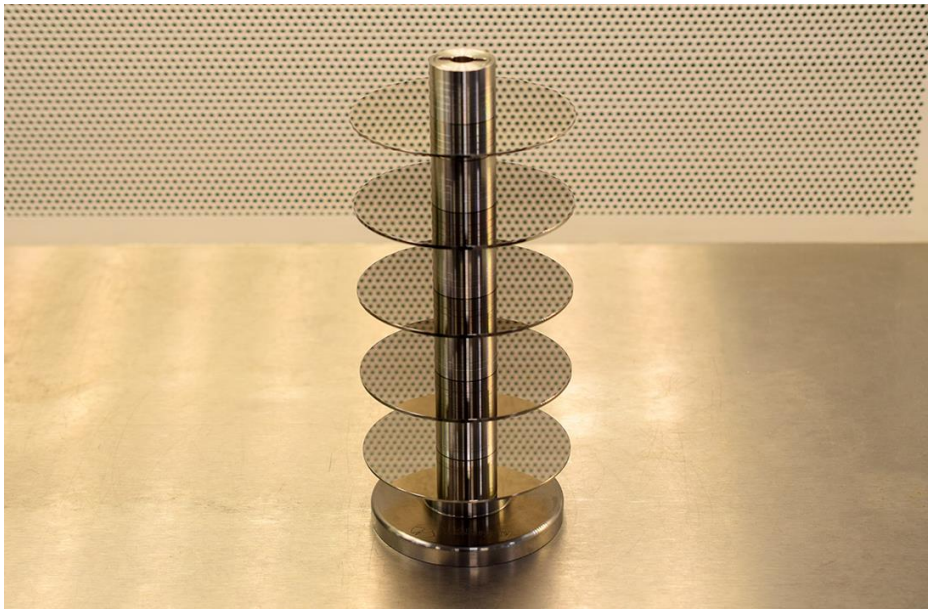
The tool is developed for 3.5'' hard drives.

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™ Platter Stand Tool

2.1 Description

The tool comes in a form of a modular multi-part platter-carrying subassemblies, mounted on a single base and connected among themselves using precisely machined joints. Every part is made of stainless steel, making the assembly suitable to store the platters without compromising the security of their delicate ferromagnetic coated layers.



Picture 2.1. The Platter Stand Tool

The main part of the tool is the *Platter Carrying Assembly* (the set contains 5 of those assemblies), and it is used to hold the platters and provide a safe way of handling them while they are removed from the hard drive assembly.

The *Platter Carrying Assembly* consists of two parts, the lower and the upper shell, which are connected via a single thread. The *Platter Carrying Assemblies* are connected between themselves with "inserts", which is a purely frictional/geometrical connection.

Picture 2.2. The Platter Carrying Assembly

Upper shells are marked with a number of engraved rings, helping the data recovery specialists differentiate them thus disabling the possibility of mixing up the order of the platters stored in the *Platter Carrying Assemblies*.

Picture 2.3. Upper shell (left) and Lower shell (right)

2.2 Part list

The Platter Stand Tool contains the following parts:

1. Base
2. Insert
3. Lower shell
4. Upper shell

Picture 2.4. Platter Stand Tool Part List

3. Assembling the tool

3.1 Unboxing

The tool comes in a wooden transport box. After removing the lid, take out the bases first (the bases are stacked on top of each other), and then the Platter Carrying Assemblies. Once all the tool parts are out of the box we can continue with the assembling.

3.2 Tool assembling

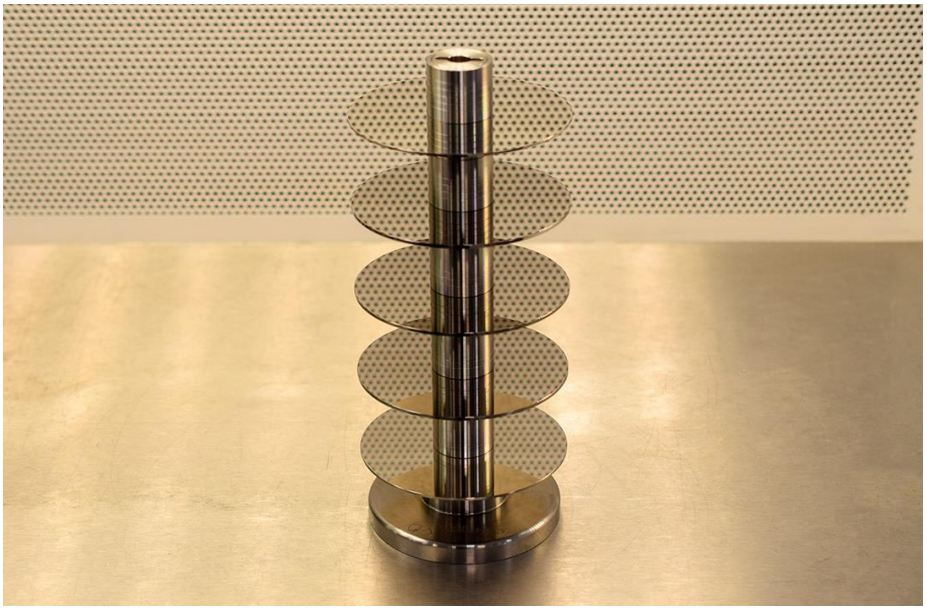
We will now cover the assembling procedure step by step, along with the pictures of those steps finished. More details will be shown in the instructional video which you can find on our webpage.

Start with the base. Attach the first Platter Holding Assembly into the hole in the middle of the base. After this point, it is all about stacking the Platter Carrying Assemblies atop of one another.

Picture 3.2. Base with the added Platter Carrying Assembly

Using the tool

The tool is designed to store the platters in five vertical tiers. Each tier represents a Platter Carrying Assembly storing a single platter.



Picture 4.1. HDDS Platter Stand Tool carrying five 3.5"platters

Once it is removed from the hard drive assembly, the platter should be gently and carefully positioned above the lower shell cone and then slid down the cone until it reaches the bottom of it.

After the platter is properly positioned on the lower shell, gently wind down the upper shell until you sense it touching the platter. Repeat this procedure for every *Platter Carrying Subassembly*. The platter is secured between the lower and the upper shell like on the picture bellow.

Picture 4.2. Position of the platter in the Platter Carrying Assembly

Depending on the number of the platters of the drive you are working on, you will use different numbers of *Platter Carrying Assemblies (from 1 to 5).* All PCA are marked with the different numbers of lines which represent the order of the platters while being stored in the drive. For example, first platter from the top should be matched with the PCA which has one cutted line, second platter with the one which has two cutted lines etc.

They are stacked atop of each other, but you can work on each of them separately depending on your preferences. Our experience so far has shown that even though you can perform the inspection of the platters while the Platter Carrying Assemblies are stacked on each other, it is much easier, safer and more convenient to simply take the chosen Platter Holding Assembly, put it on the second base and individually clean it.

For the inspecting of the bottom side of the platter, place the insert as a joint between the base and the Platter Holding Assembly, turn the Platter Holding Assembly upside down and slide it down the insert.

4. 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