

Drill Press Protocol

Tissue Homogenizer
Catalog number: ACC 00900



This protocol describes how to attach Agdia's tissue homogenizer to a drill press.

This photo shows how the tissue homogenizer is presented when ordered.

A set screw is slightly visible at the center of the black shaft.



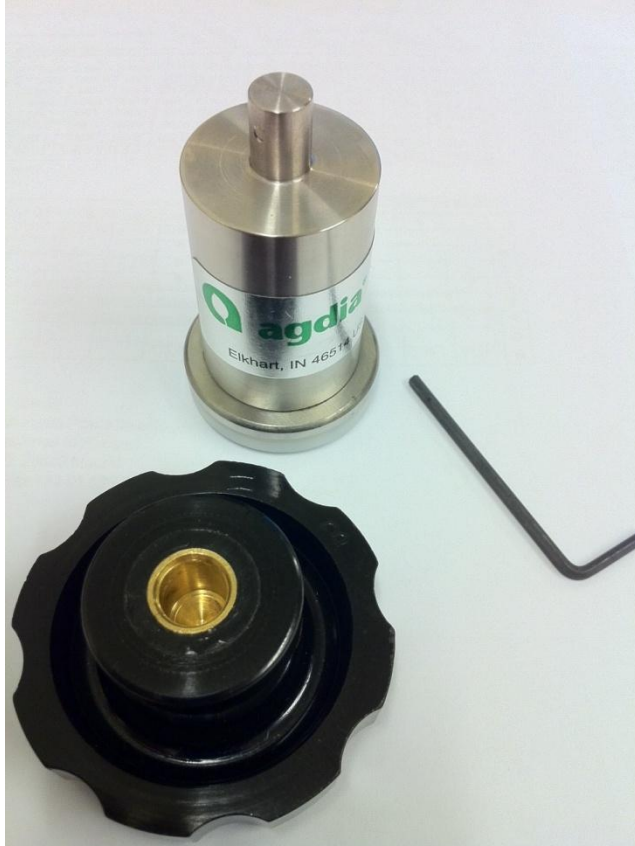
To remove the handle insert the supplied allen wrench and turn counter clockwise.

Turn the screw three to five times to completely loosen.

At this point you should be able to pull the handle straight off.

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Once the handle is removed you will be able to see the stem of the homogenizer. This stem is what will be used to attach the piece to your drill press.

***Before performing any work on the drill press please make sure that the unit is unplugged!



Once the unit is unplugged you are ready to fit the homogenizer to the drill press and make any adjustments.

You will need the black chuck key shown at the bottom of this photo to tighten the jaws of the chuck.

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Before installing the homogenizer and processing samples, check the speed setting of the drill press.

A high speed setting will quickly generate heat on the sample when grinding, this is not recommended. It is suggested to run the unit at the last two settings, around 600 -1100 rpm.

The top cover of the press opens to reveal two pulleys, a belt and a speed guide label.

Adjust the belt as needed. In most cases you will be moving the belt down from the top.



Once the speed has been adjusted you are ready to install the homogenizer.

This image is of the chuck and will be where the homogenizer is attached.

The black collar on the top will freely spin, and as it moves the silver colored teeth with either extend or retract.

For most drill presses you need to retract the teeth in order to insert the stem of the homogenizer.

Once the stem of the homogenizer is inserted, retighten the teeth around the stem.

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Finish tightening using the chuck key supplied with the drill press.

In this image the tool is inserted into one of the holes on the chuck allowing the teeth of the two parts to meet up.

The tool is then turned to tighten the chuck.

Remove chuck key from the chuck before operating the machine.



Add a smooth platform to the base of the press if there is a hole in the center of the metal plate. The hole needs to be covered or grinding will be difficult or even impossible.

In this image a small piece of plastic is secured to the unit using bolts.

Cutting boards, tile, etc... can be used for this.

Lastly, to prolong the life of the homogenizer keep it clean and dry.