Vinylcutter

Silhouette Curio 2

A small desktop cutter used for smaller, mostly flat material.

Usefull Links:

- Manual

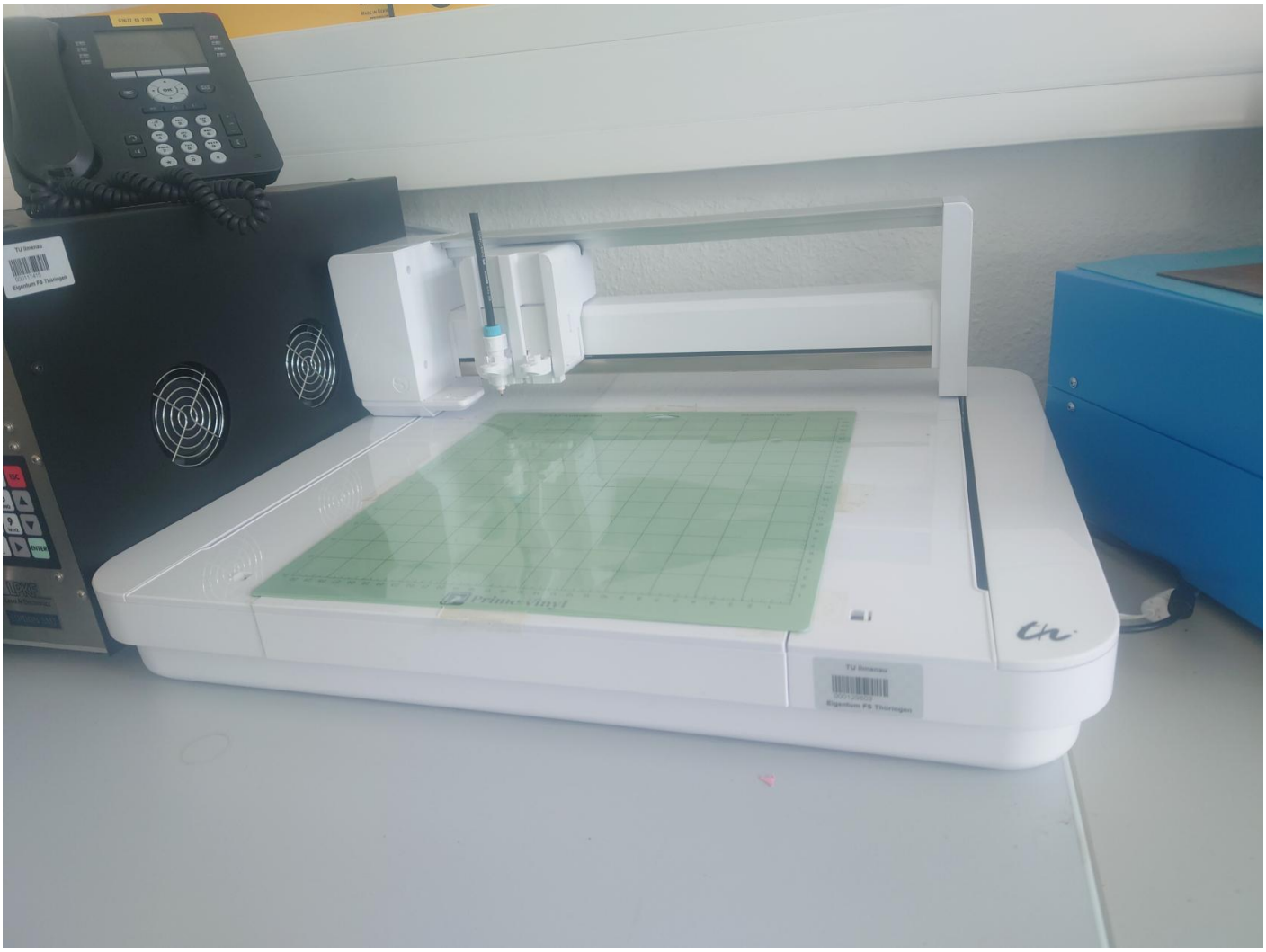
Summa S3 T75

An industry rolling cutter user for really big materials roll.

- Specification/Materials
- How to use
- Tips and Tricks
- Maintenance
- Troubleshooting

Specification/Materials

Silhouette Curio 2



Features

- Electrostatic cutting surface (but cutting mat makes it easier)
- Automatic Tool detection (not on the selfmade of course)
- Measure Material thickness automatically
- USB/Bluetooth
- 2 Tool Holders

Specifications

- 30 x 30 cm Cutting Area
- Max Material Thickness: 20mm
- Max Cutting Thickness: 3mm

Tools/Heads

TODO

Summa S3 T75

TODO

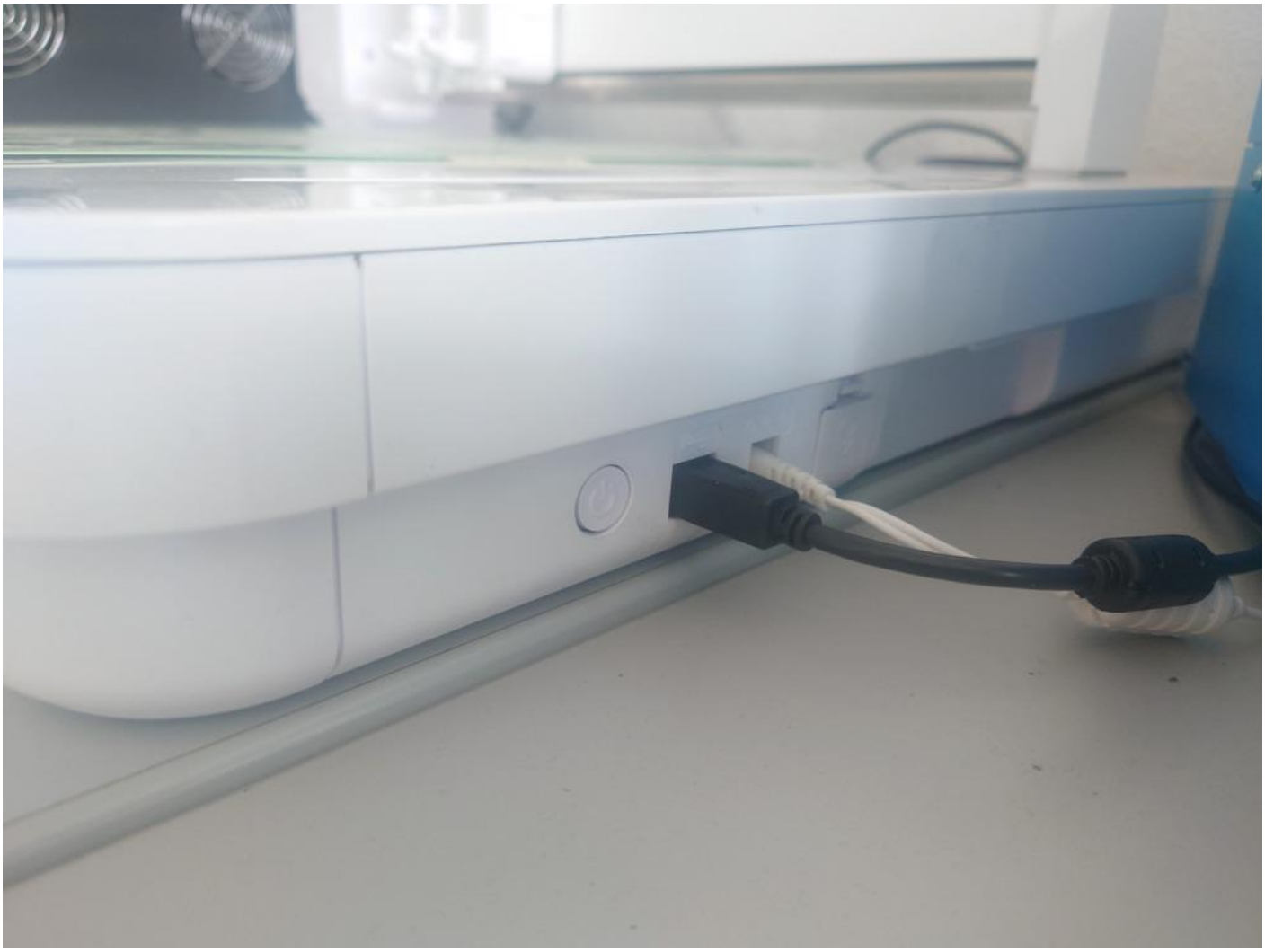
Specifications

- 76mm roll diameter (needs adapters for shorter ones
- 500mm roll length

How to use

1. Turn on

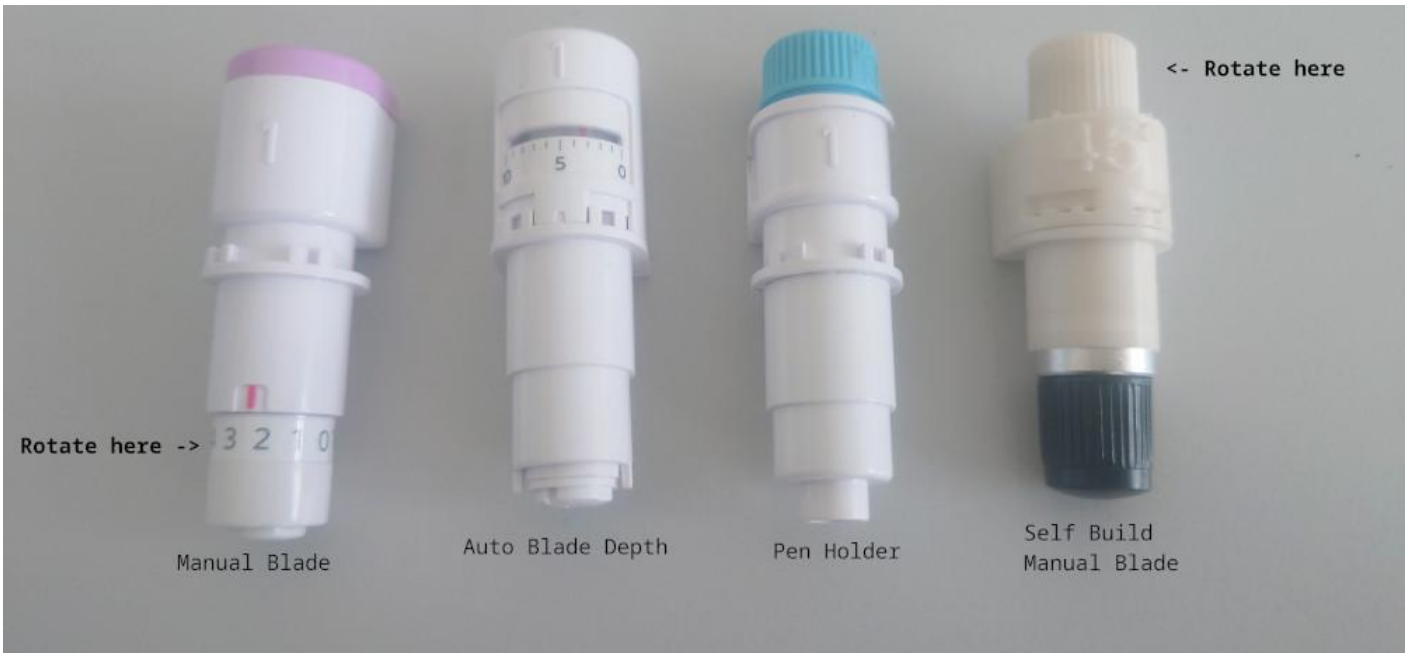
Press the power button on the right side **for a few seconds**:



2. [Optional] Insert tools

Next choose your tool you want to use, currently there are:

Tools



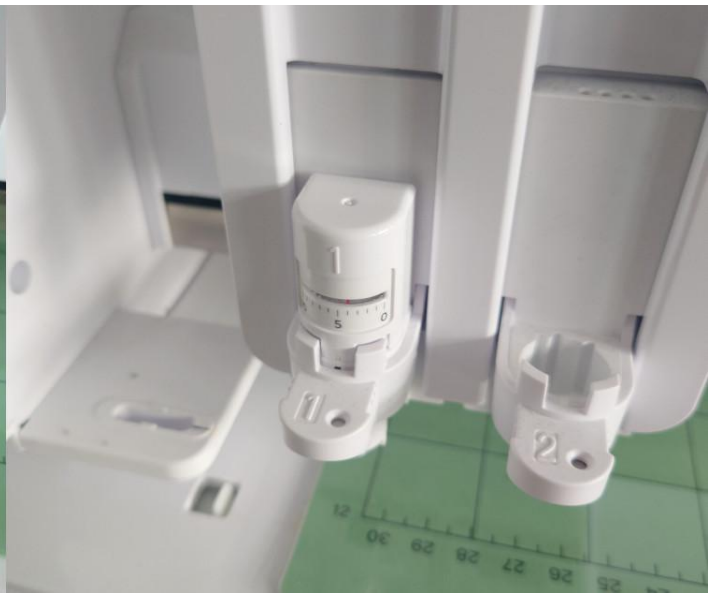
Tool	Feature
Curio Manual Blade	Tool with blade, where the tool-depth needs to be adjusted **manually** - adjustment and disamble by rotating the bottom scale
Curio Auto Blade	Tool with blade, where the tool-depth can be adjusted with the software, it then drives into the left side of the machine and presses mechanically the tool down - press the bottom to manually set the tool-depth
Curio Pen Holder	Tool for a penn, which can be tightend on the top, an the top part can be changed for different pens
Self Build manual tool	Self printed manual tool, like the above, but to adjust it, **rotate on the top** - rotate the bottom to change the blade

All tool belong into **SLOT 1**.

Load A Tool

Then you can use the 'Tool Change' button to move the machine to the front or back (arrow keys) and insert the tool.

Then to change the tool, pull on the latch, place the tool and push on it.

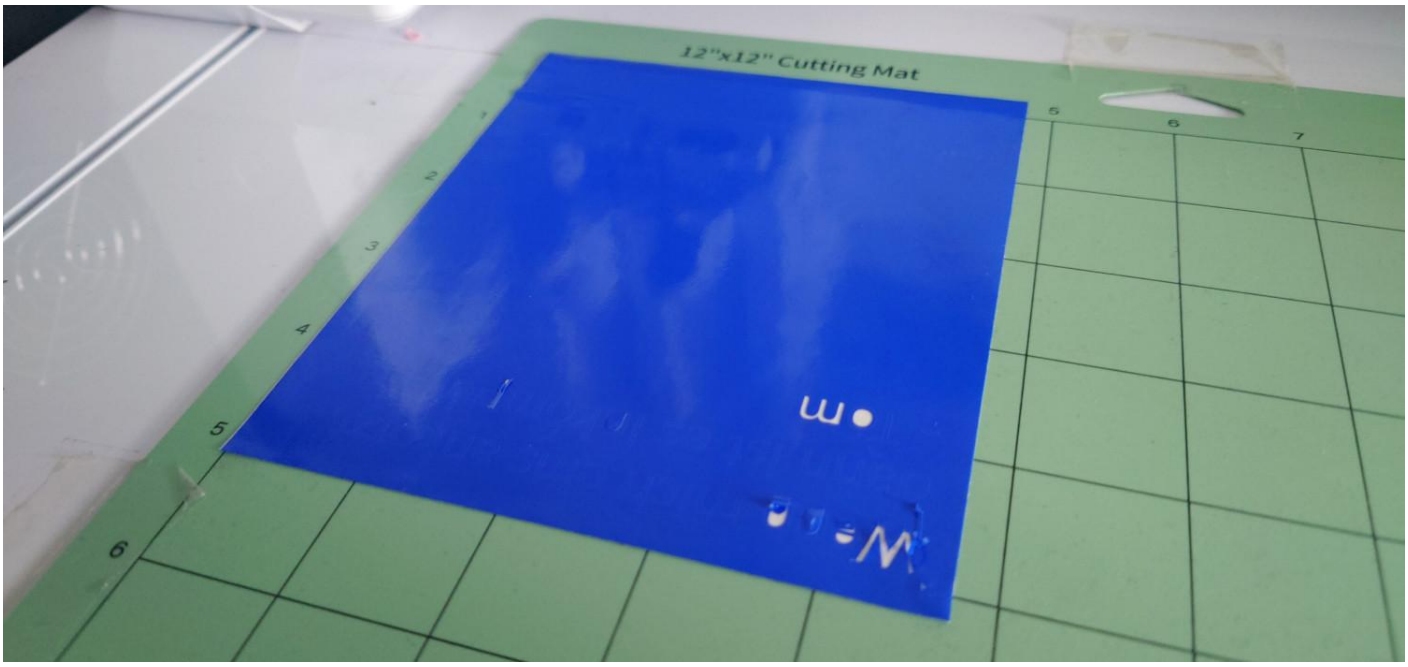
3. Place Material

Before placing the material:

- remove the protective film placed on the cutting area (**place it back when finished**)
- activate the electrostatic bed with the '**static**' button, it **takes a while** to charge up the material

Then optionaly change the/place a cutting mat if your material is not flat enough/bends up. (Cutting mat is **optional** but especialy very bend materials hold better on it)

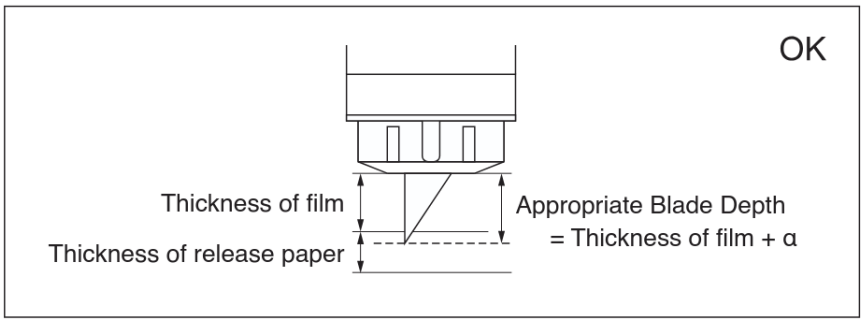
It should be **flat and stuck** on the bad, so **not easy to move away**.

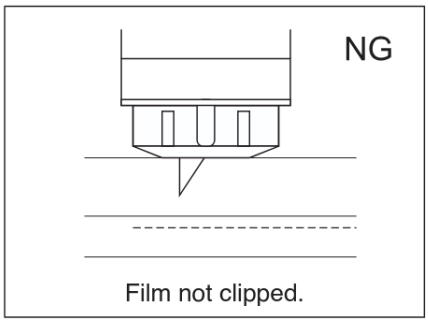


4. Make a test cut

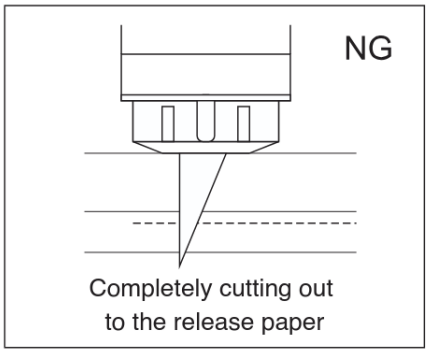
Blade Depth Guideline

Blade Depth as a guideline





The most important setting in cutting is to adjust the Blade Depth. Adjust so that the blade protrudes slightly more than the thickness of the media to be cut.
When cutting the cutting film, extend the cutter blade more than the film but not through the release paper.

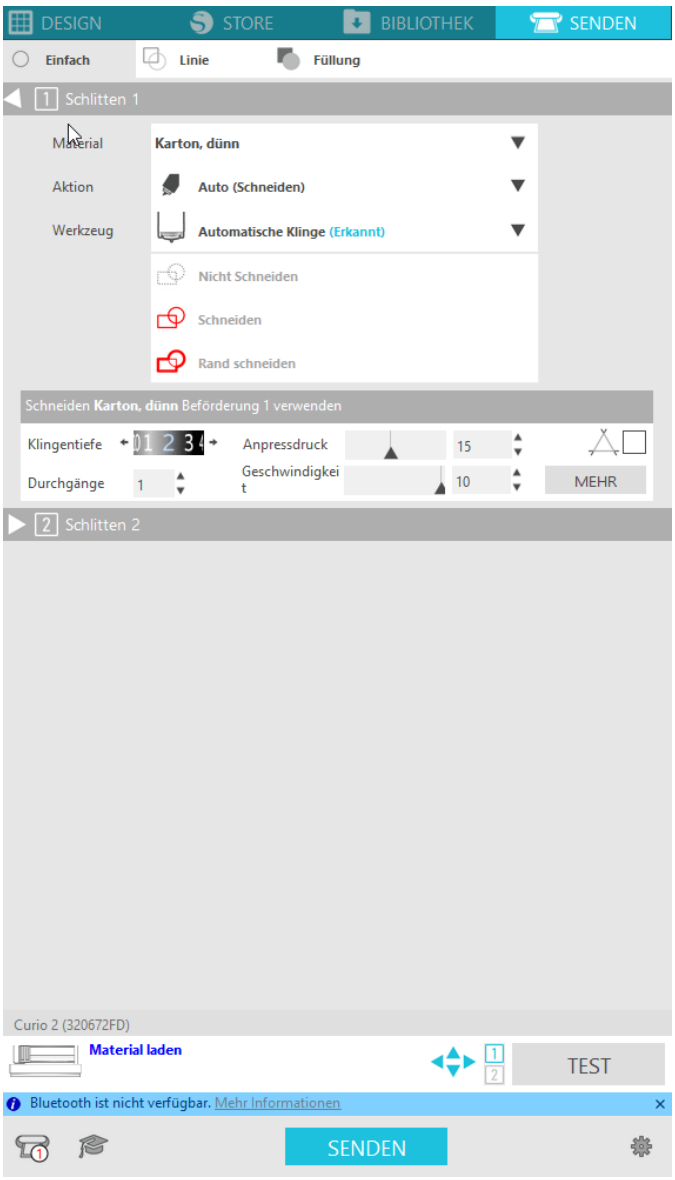


Adjust the settings

Open Silhouette Studio and go to the top right tab **'SENDEN'** (send).

There you can adjust the Settings for the tool.

The most important part it the seconds box from the top **'Schneiden'** (cut).

Description	Image
'Klingentiefe' (cutting depth) - is **only** used for the **auto knife depth** tool, the other ones need to be adjusted manually, but **THE MOST IMPORTANT** **'Anpressdruck'** (contact preasure) - is the preasure/z offset used to go into the material -**higher for harder materials, lower for softer to not rip it'** - not that important **'Durchgänge'** (rounds) - the number of repititions **'Geschwindigkeit'** (speed) - i guess the percentage from max speed - lower for more complex structures to cut	

Make the cut

Drive to the position you want to test with the arrow keys on the machine.

MEASURE THE THICKNESS with the botton on the machine.

- When you use **reflective media,apply masking tape** and then detect the thickness at that position.

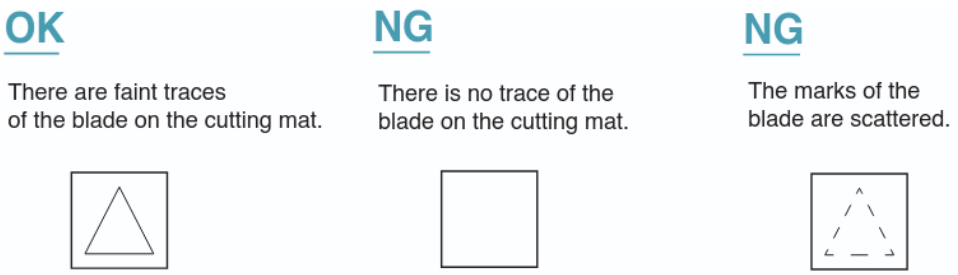
- The sensor is attached to the bottom of the **Tool Holder 2**.

Test cut

1. After setting the cutting conditions, click on the "TEST" Button.
   Square and triangle test patterns are cut.

> **Supplement** Press the "TEST" Button to start the test cut at the tool position.
> If you want to change the position for the test cut, press and hold the "Position" Key to change the position of the carriage.

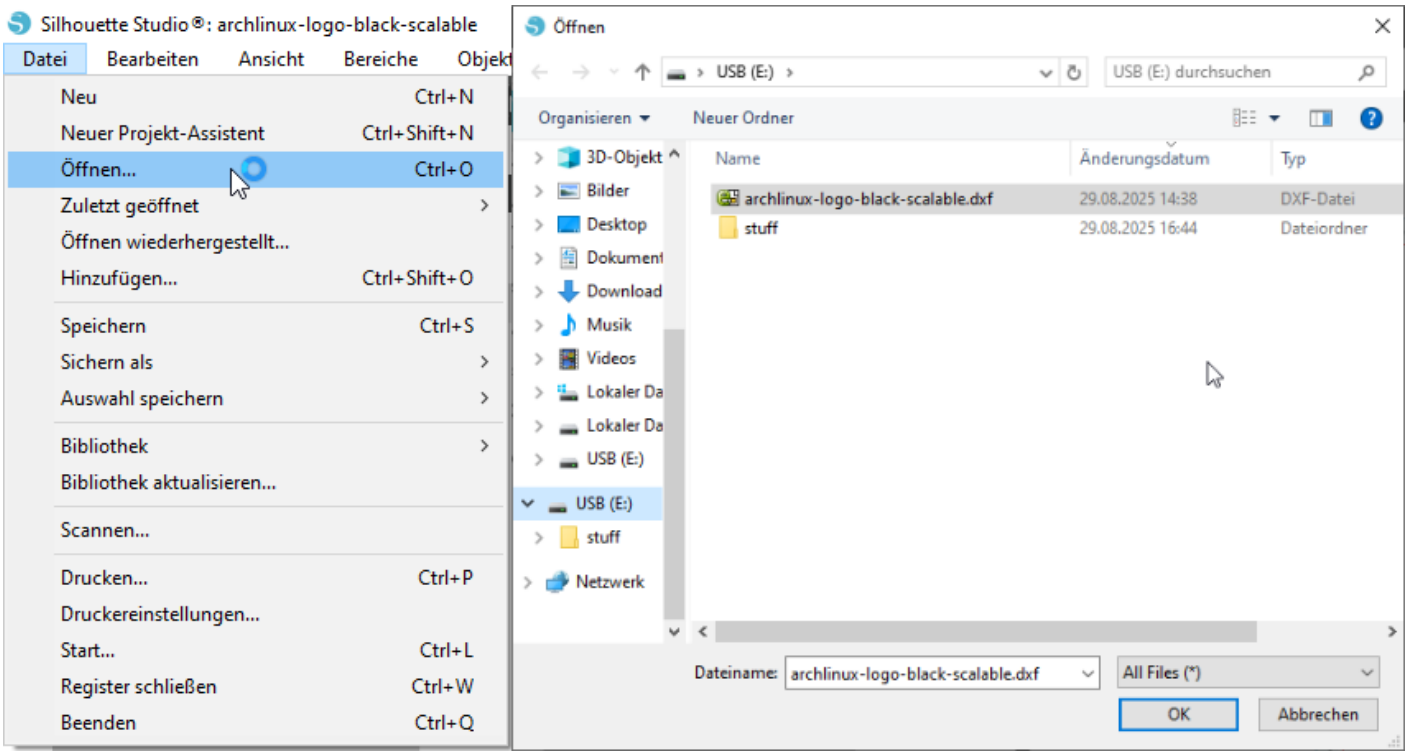
2. After the test cut is completed, peel off the outer square and check that the cut is clean without any uncut parts.
   Then peel off the inner triangle.
   It is best to leave a thin mark of the cutter on the cutting mat or release paper.



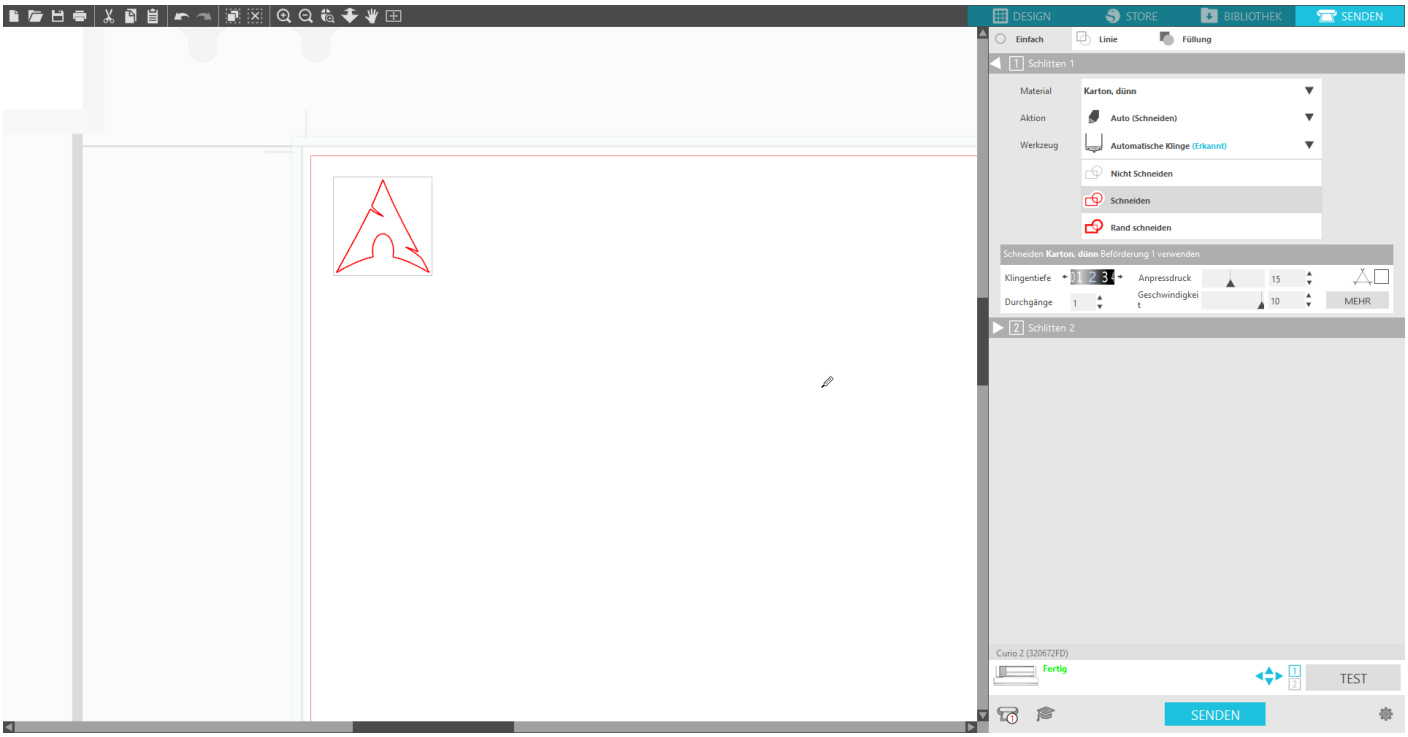
3. Change the cutting conditions if there is an uncut part or if the release paper is cut out through.
   After changing the cutting conditions, you have to perform test cut again to check.
   Repeat condition setting and test cut until you find the optimal cutting conditions for the media you want to use.

5. Import and Prepair in software

- save your garphic in **DXF R12** format and import it in Silhouette Studio in 'File'->'Open...' ("Datei"->"Öffnen...")
- **make sure, it has the right size** (the software is not that nice for adjustments afterwards



- then go to the '**Send**' (Senden) tab and adjust positioning and settings



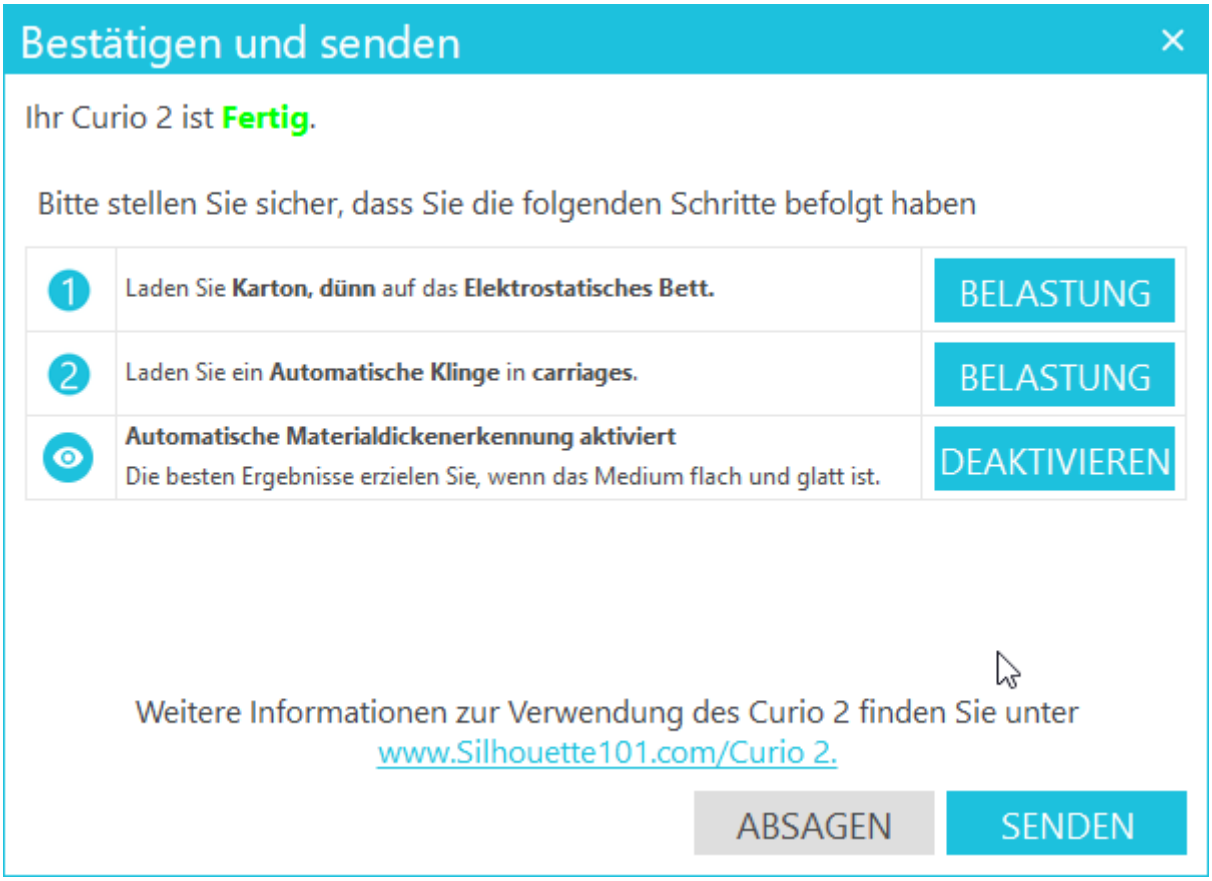
For the operations:

- **Cut ("Schneiden")** means cut along **ALL paths**
- **Cut Outline ("Rand schneiden")** means cut **ONLY OUTER PATHS**, so only arround your image

TODO Pass Markings

6. Start cutting

- and if everything is allright, start cutting by **sending ('SENDEN')**



Here it shows just a step by step guide plus the setting for material depth perseption. **If you did it before**, just press **deactivate ('DEAKTIVIEREN')** to turn it of.

Then again press **send ('SENDEN')**

Tips and Tricks

Maintenance

Troubleshooting