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# Use Anycubic BMP Laser with Inkscape

I just bought a Anycubic Mega Pro with a laser engraver addon. This is very neat, but the interface for the printer are BMP files..


OtiVuck

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ANYCUBIC MEGA PRO LASER INKSCAPE ENGRAVING

This project was created on 10/31/2020 and last updated 2 years ago.

The Anycubic reads the BMP file on the SD-Card and controls the laser directly. This is a neat little option because it skips the step to generate gcode and let you directly use images to be lasered on any surface.

But I need to understand how to get the dimensions right. So I will document my steps on this page to cut some little things.

I think I will also document my settings for different materials and what is possible with the 1500mW laser.

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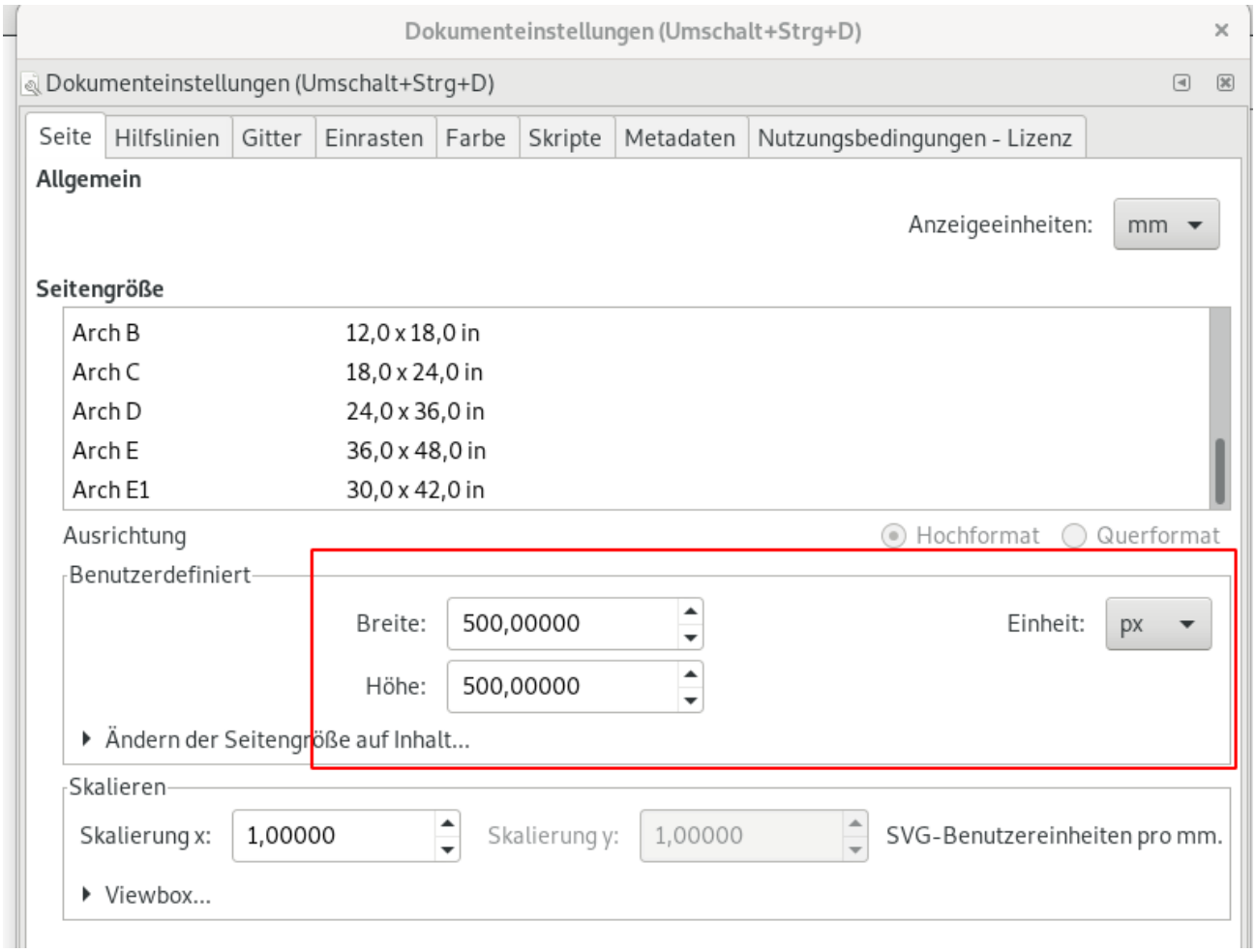
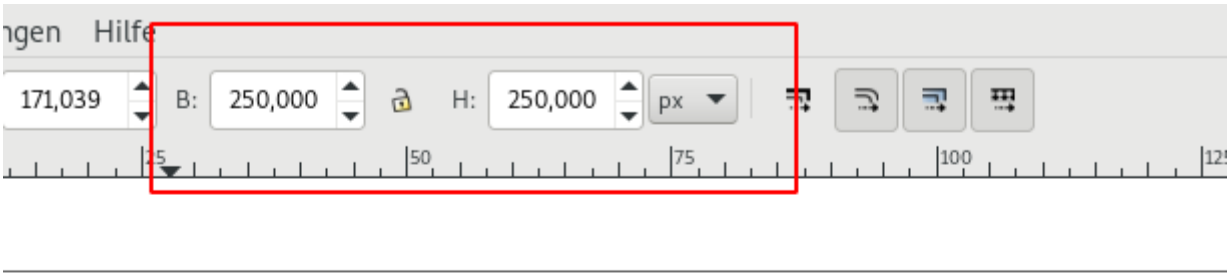
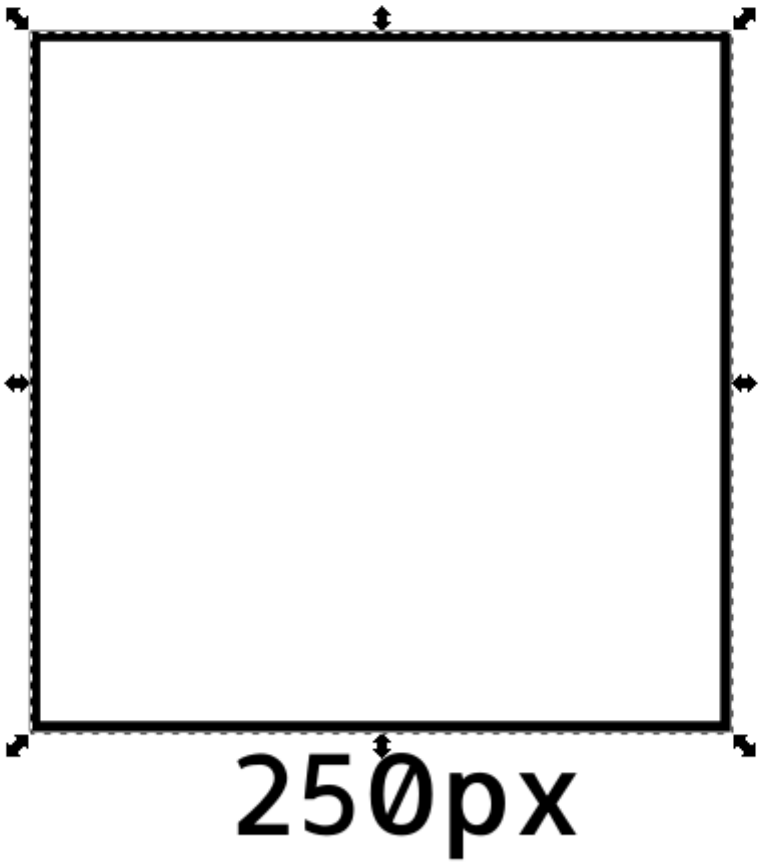
## DETAILS

Using Inkscape set the document to a defined size, lets say 500px

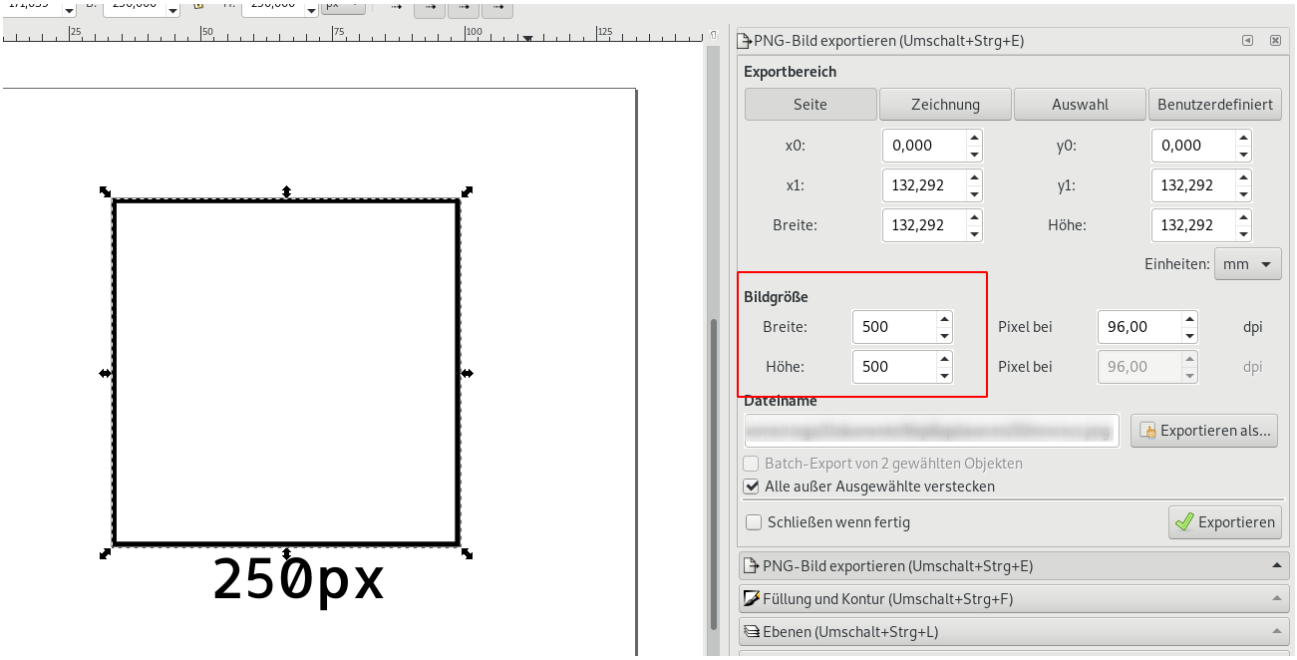


Now we make a 250px rectangle.




Then export it as PNG, but be aware to use the same size (500px) of the whole document.




Now we can export it as PNG, but we need BMP.

I use the imagemagick tool to convert it to bmp with the following command:

```
convert 50mmrect.png BMP3:50mmrect.bmp
```

It is important to use the BMP3 (Version 3), because this generates files with 24 bit color:

```
50mmrect.bmp: PC bitmap, Windows 3.x format, 500 x 500 x 24
```

Without the BMP3 it generates in the newer 32Bit format, which results in a wrong results on the Anycubic. You can use the "file" command to check your version.

This is wrong:

```
20mmrect.bmp: PC bitmap, Windows 98/2000 and newer format, 76 x 76 x 32
```

The BMP Version problem took me the most time to figure out.

The default setting of the Anycubic firmware is to scale each pixel to 0.1, so our 250px will result in a 25mm rectangle.

Bingo! So now I know how to make drawing and scale them to the output of the Anycubic.

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Materials and Settings

| Material | Laser Intensity | Resul + | LightBurn Settings |
|---|---|---|---|

| | | | |
|---|---|---|---|
| 3mm black plastic<br>EAN: | 100%<br>40%<br>(engraving) | NOPE | Engrave:<br>Cut: 2mm/s 100% 1x<br>Image: 100mm/s 1% LineInterval: 0.1 |
| 1mm foam rubber<br>EAN: 4008525160427 | 40% (cut) | OK | |
| 2mm acrylic glas<br>(transparent)<br>EAN: 4003412026695 | 100% | NOPE | |
| Stickable foam rubber<br>EAN: 4008525756163 | 40% (cut) | OK | |
| presentation foil<br>(transparent)<br>EAN: 4250073716230 | 80% (cut)<br><br>40%<br>(engraving) | OK | |
| Cardboard 2mm<br>EAN: 2118251002648 | 100% | NOPE | Engrave: 15mm/s 20<br>Cut: 1.5mm/s 100% 5 times, 0.4mm ZOffset<br>Image: 100mm/s 1% LineInterval: 0.1 |
| 3mm Carton mousse black<br>EAN: 3329681936499 | 100% (cut) | | |
| 1-2mm balsa wood | | | Engrave: 15mm/s 20%<br>Cut: 8mm/s 100% 5 times<br>Image: 200mm/s 1% LineInterval: 0.2 |

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