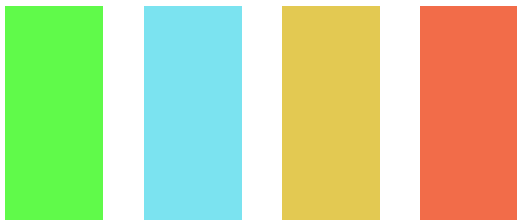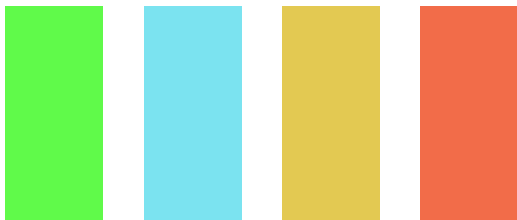# User Guide: Epilog 40 Fusion Vector
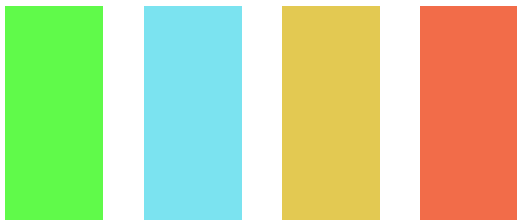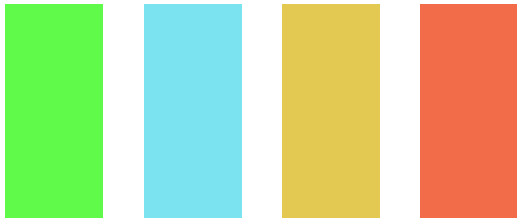
Physical Setup

Turn the power on

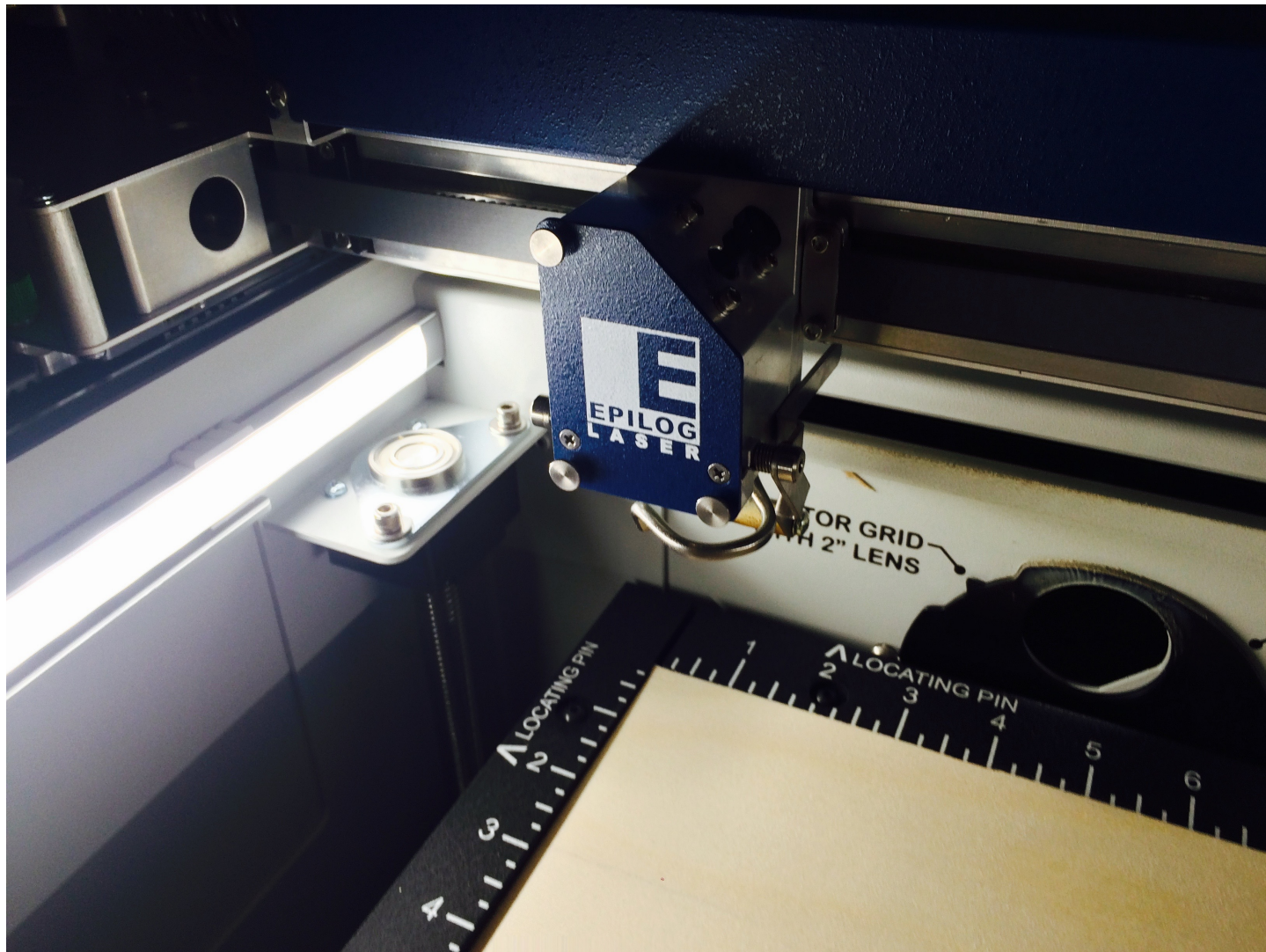Swipe your studentcard to start the epilog cutter

Wait for the cutter to initialize

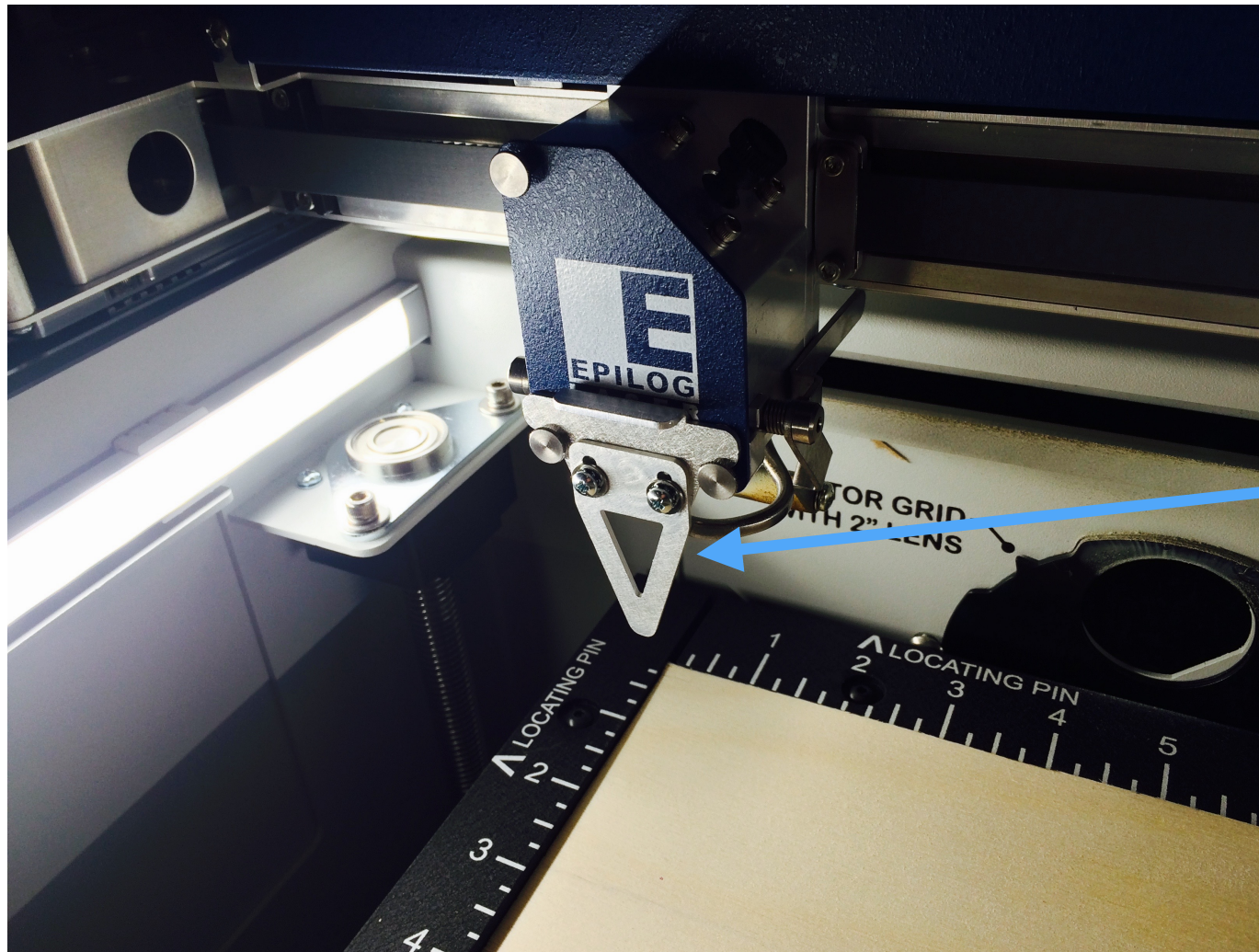Do not open the lid until the display shows: Job

Place your material

Now open the lid, and place your material on the honeycomb bed.

0,0 (home) in the epilog cutter is the top-left corner.

Set focus height

Put the height calibration piece on the cutter head.

Remember where you found it…
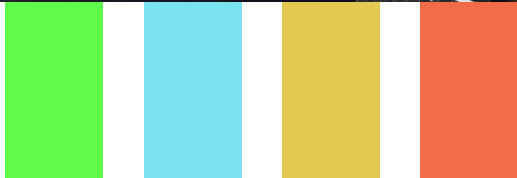
Set focus height

Switch to the focus menu

Now adjust the height of the material by pushing the **joystick** up until the material barely touches the calibration piece. To store the heigh, press the joystick knob (as a button)

⚠️ **NOTE**: The lid must be closed when the Laser Cutter is in operation. ALSO when setting focus etc.

REMOVE THE CALIBRATION PIECE

After the height calibration, remove the calibration piece and put it back in the tray
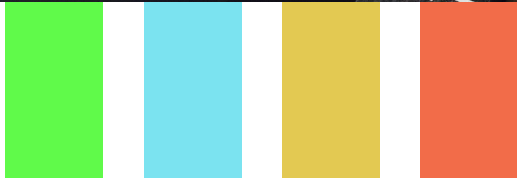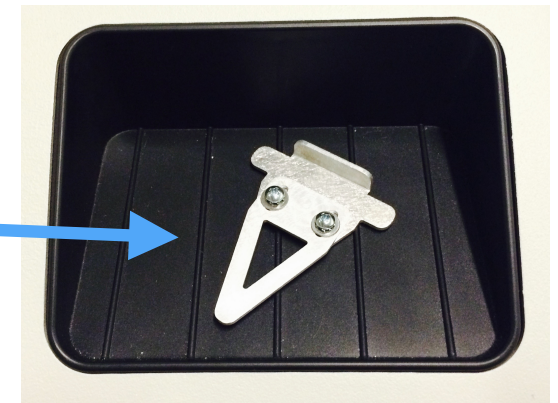
"Prime" the laser

The laser needs to be primed before use.

To do this:

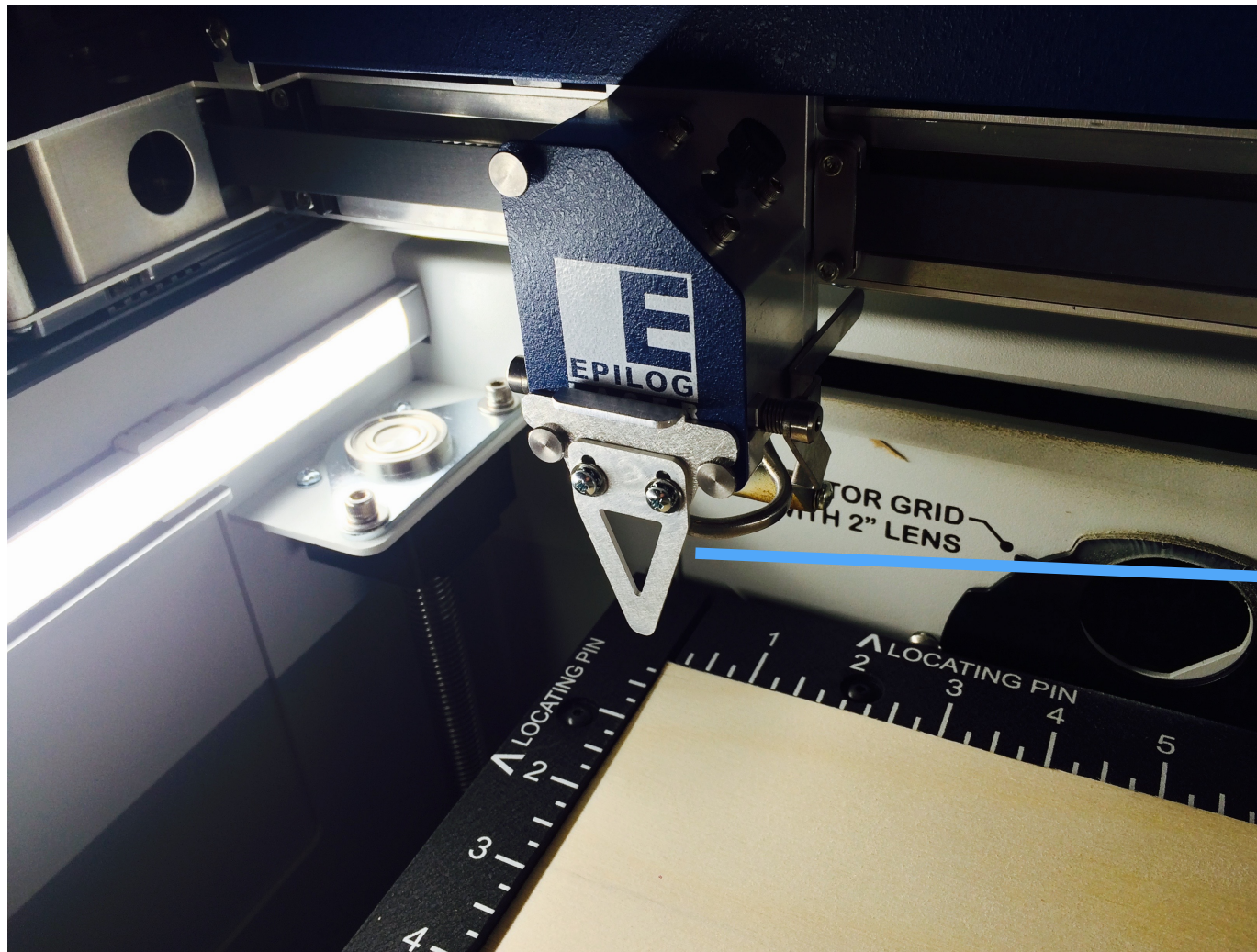1. Switch to the "Jog" menu.

2. Move the laser head to the edge of your material (some material you can spare)

3. Press and hold the "White" laser button.

4. Move the Joystick around until the laser cuts into the material.

5. Now the laser has been primed.

6. Move the laser head back to 0,0

Software Setup

This guide is based on Adobe Illustrator

You can use the following software with similar procedure:

Rhino**ceros**

AutoCAD
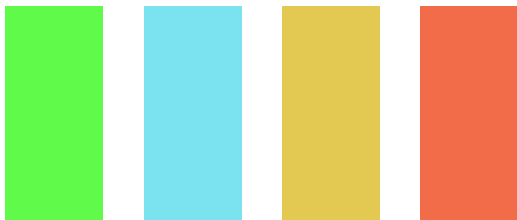
Vector cutting from Illustrator#1:

Either download the illustrator template file from the link below:

or create a new document with the following settings:

Size 1000mm x 700mm
Document Color Mode: RGB

Units in Illustrator must be set to:
General: Millimeters
Stroke: Millimeters
Type: Points or Millimeters

http://www.create.aau.dk/facilities/wp-content/uploads/Epilog_Template_File.ai.zip
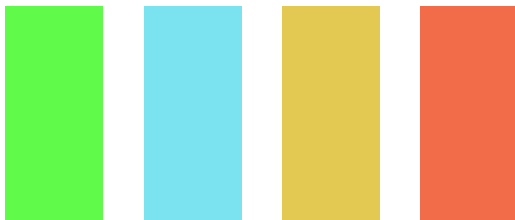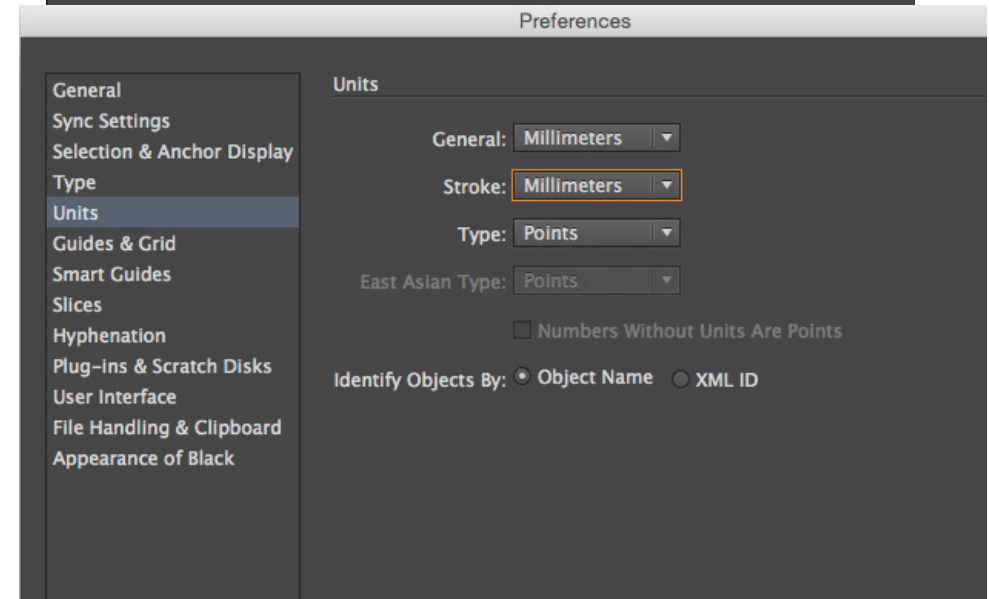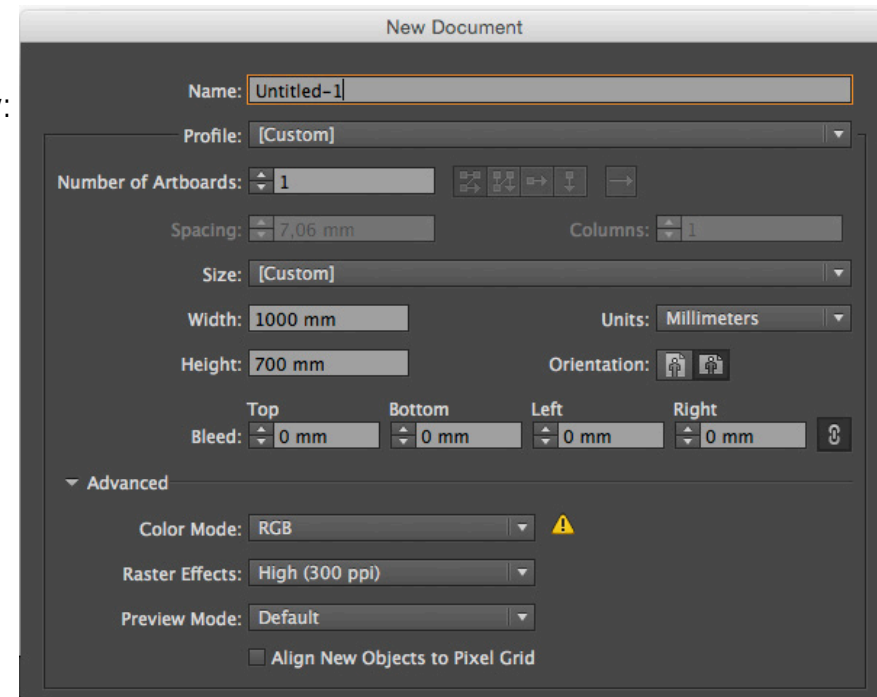
Vector cutting from Illustrator#2:

For vector cutting, make sure that the line thickness is
0,03 mm or less
Also make sure that the line color is black (0,0,0)

The Epilog Laser considers black as the primary cutting color. Later we will explore some advanced settings that allows for multiple cutting settings in the same document.

Also make sure that your objects are within the area the laser cutter can cut: 1000mmx700mm

Stroke: 0,05 mm   Uniform   Basic   Opacity: 100%
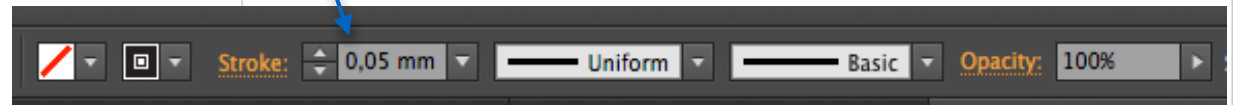
Vector cutting from Illustrator#3:

When you are ready to vector cut, open the print dialog box:
File -> Print (CTRL+P)

Most settings should be correct, but please double check them anyway.

1. Check Printer (Epilog Engraver WinX64 Fusion
2. Click 'Advanced' and select '[High Resolution]'

Preset: [Medium Resolution]   Custom...

Custom
[High Resolution]
✓ [Medium Resolution]
[Low Resolution]
[For Complex Art]
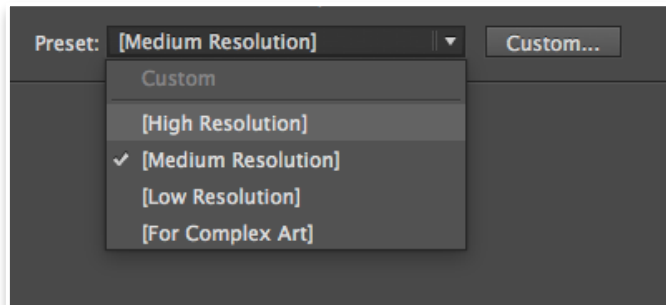
3. Next click Setup…

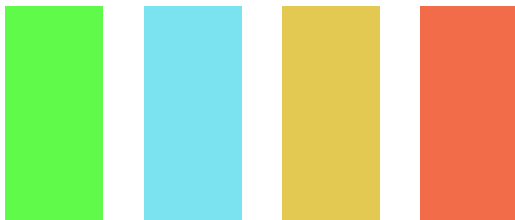4. Next click 'properties'

Print

Print Preset: [Default]
Printer: Epilog Engraver WinX64 Fusion
PPD:

General
Marks and Bleed
Output
Graphics
Color Management
Advanced
Summary

General

Copies: 1   Collate   Reverse Order

Artboards: ● All   ○ Range:

Ignore Artboards   Skip Blank Artboards

Media Size: Defined by Driver

Width: 999,998 mm   Height: 699,9816 mr

Orientation: Auto-Rotate

Transverse

Options

Print Layers: Visible & Printable Layers

Placement: X: 0 mm   Y: -0,01 mm

Scaling: Do Not Scale   Overlap: 0 mm

Scale: W: 100   H: 100

Tile Range:

1 of 1

Document: 1000 mm x 700 mm
Media: 1000 mm x 699,98 mm

Setup...   Done   Print   Cancel

Vector cutting from Illustrator#4:

Now the Epilog Engraver properties box opens.

1. Make sure to select only Vector in the job type section
2. ALWAYS verify that Auto Focus is NOT marked
3. Set speed, Power and Freq. accordingly to the guide (found in the room)
4. Piece Size must be set to H: 1000mm and V: 700mm
5. Click Ok
6. Click print.

DO NOT enable

Auto Focus!!!!!

It will run the laser head into the laser bed.

RED areas: DO NO TOUCH

GREEN areas: CHECK VALUES

Epilog Engraver WinX64 Fusion Properties

General | Advanced | Color Mapping

Resolution: 600 DPI (1200, 600, 400, 300, 200, 150, 75)

Laser Type: ● CO2 ○ Fiber

Job Type: ○ Raster ● Vector ○ Combined

Options:
☐ Auto Focus
☐ Vector Grid
Thickness: 0.000
☐ Center-Engraving
Center-Center
☑ Send to Laser
☑ Send to Manager

Rotary Options:
☐ 3-Jaw Chuck
Diameter: 2.540

Piece Size (mm):
Horizontal: 1000.00
Vertical: 700.00

Raster Setting:
Speed: 60 %
Power: 100 %
Freq.: 50
Engrave Direction: Top-Down
Image Dithering: Standard

Vector Setting:
Speed: 10 %
Power: 100 %
Freq.: 100
☐ Vector Sorting Optimize
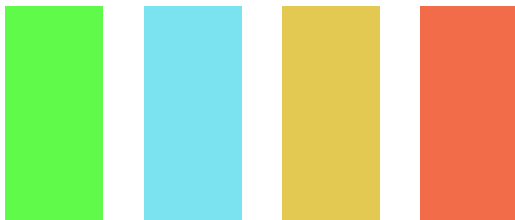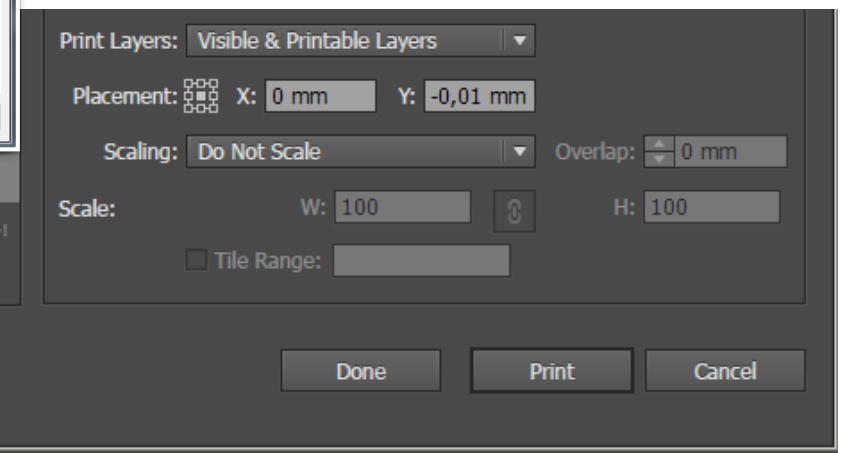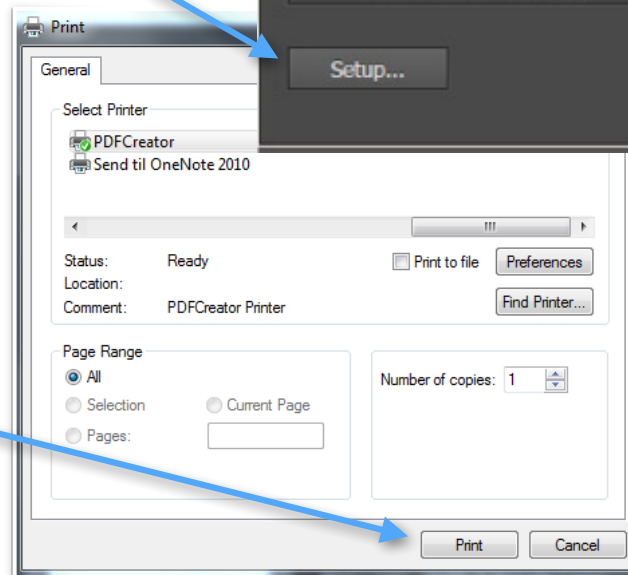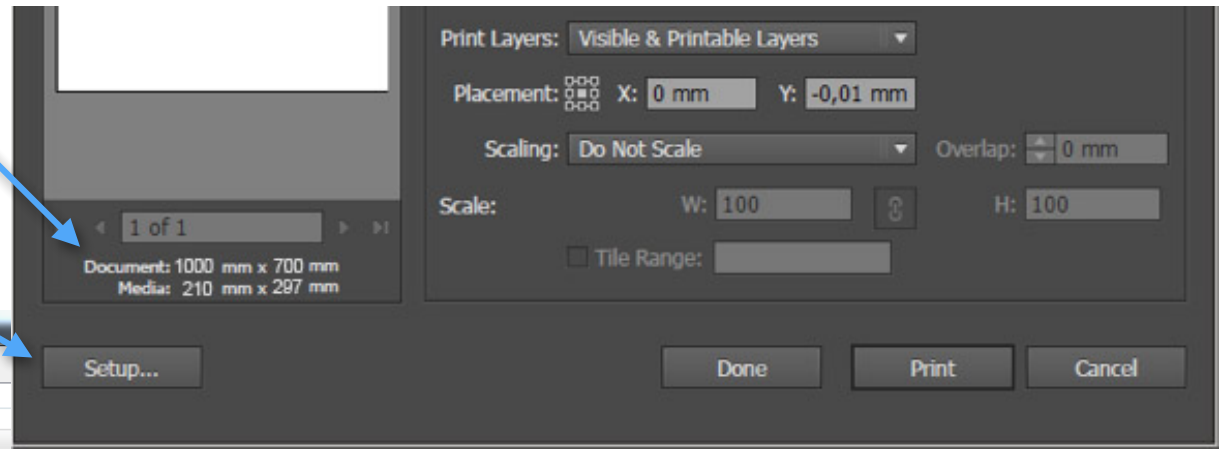☐ Speed Comp. ☑ Power Comp.

OK | Cancel

Vector cutting from Illustrator#5:

Make sure "Document Size" and "Media Size" has the same dimension.

If not, click "Setup" and in the new window

click "Print".

Check "Document Size" and "Media Size" has the same dimension.

Print Layers: Visible & Printable Layers

Placement: X: 0 mm   Y: -0,01 mm

Scaling: Do Not Scale   Overlap: 0 mm

Scale: W: 100   H: 100

Tile Range:

1 of 1

Document: 1000 mm x 700 mm
Media: 210 mm x 297 mm

Setup...   Done   Print   Cancel

Print

General

Select Printer

PDFCreator
Send til OneNote 2010

Status: Ready
Location:
Comment: PDFCreator Printer

Print to file   Preferences
Find Printer...

Page Range
○ All
○ Selection   ○ Current Page
○ Pages:

Number of copies: 1

Print   Cancel

Print Layers: Visible & Printable Layers

Placement: X: 0 mm   Y: -0,01 mm

Scaling: Do Not Scale   Overlap: 0 mm

Scale: W: 100   H: 100

Tile Range:

1 of 1

Document: 1000 mm x 700 mm
Media: 1000 mm x 699,98 mm

Setup...   Done   Print   Cancel

Start the cut job

Make sure that the Job menu is active
On the display screen, the name of the file sent should display right under Job:

Now click the green GO button.

After you are done...

Remove all leftover material from the machine and close the lid.
The machine will automatically turn off when your booking time expires.