

# AMT

## Laser Cutter

### LOCATION

10th Floor Lab  
2 West 13th Street  
New York, NY 10011

### HOURS\*

M	11am - 6pm
T	11am - 6pm
W	11am - 6pm
Th	11am - 2pm, 4 - 7pm
F	Closed

### CONTACT

amtlasercutter@gmail.com  
amt.parsons.edu/labs/lasercutter

### TECHNICIANS

Glendon Jones  
Greg Kaplan

### MANAGER

Chris Hennelly

## Submission Guidelines: General Information

### OVERVIEW

The laser cutter is a great tool to take advantage of. All students and faculty are subject to a **first-come, first-served** queue; make sure jobs are submitted with enough time for completion and possible re-submission. We will not be held responsible for missed deadlines so plan accordingly.

### OUR MACHINE



<b>SPECS</b>	75-Watt Epilog LEGEND EXT
<b>URL</b>	<a href="http://www.epiloglaser.com/legend_36ext.htm">http://www.epiloglaser.com/legend_36ext.htm</a>
<b>SIZE</b>	36" (length) x 24" (width) x 10" (height) 91.44cm (length) x 60.96cm (width) x 25.4cm (height)

### USAGE

Jobs may be submitted from students/faculty currently enrolled/teaching in AMT classes. Students/Faculty from outside of AMT can be granted access on a project-by-project basis by the manager only (prior to submission)!

The queue creates variable timescales for turn-around time, but we recommend planning for at least a 2-3 day minimum turn-around, not including clean up and/or a possible re-submission.

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## Submission Guidelines: Policies

### USAGE

We cannot give every AMT student an individual orientation and consultation for the machine.

Submissions enter a job queue on a **first-come, first-served** basis.

We reserve the right to prioritize student work over personal or non-academic use.

You must format your files based on our guidelines before submitting them by email to [amtlasercutter@gmail.com](mailto:amtlasercutter@gmail.com).

You must bring in an approved material cut down to at least the bed size of the machine (36" x 24" (91.44cm x 60.96cm)).

You are responsible for planning the cutter service into your design process. Plan for at least a 2-3 day minimum turn-around.

Failure to comply with these guidelines will result in a rejection of your job **and/or** a loss of your place in the job queue.

### SAFETY

The cutter is operated by technicians only. No students are allowed in the cutter room without permission by the Technician on duty.

We **will not** cut any material that we cannot guarantee to be safe! To be sure, only bring us materials with the labels still on them so we can verify what they are (especially Acrylic).

We **will not** cut any foams, styrene, PVC, Polycarbonate, Kevlar, Vinyl or any related material; the fumes from this kind of cutting are extremely hazardous. We are unable to cut metal of any kind.

For inquiries on any special materials that you'd like to know if we are able to cut Email [amtlasercutter@gmail.com](mailto:amtlasercutter@gmail.com) (put "Attention to Manager" in the subject line).

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## Submission Guidelines: How the Cutter Thinks

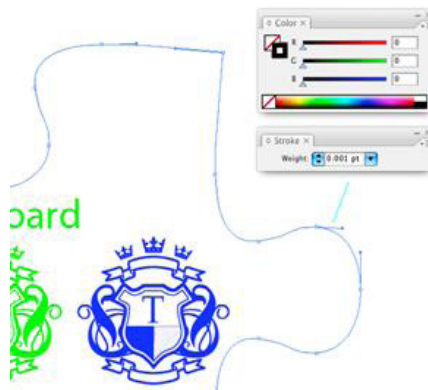
### OVERVIEW

The laser cutter will cut through and/or etch on to any acceptable material. It distinguishes shapes in two ways: vector and raster. The difference between vector (cutting) and raster (etching) is stroke weight and color!

To get a better idea of how the machine handles raster etching and vector cutting, watch this video at: [http://www.youtube.com/watch?v=OZckGS\\_g-Rc](http://www.youtube.com/watch?v=OZckGS_g-Rc)

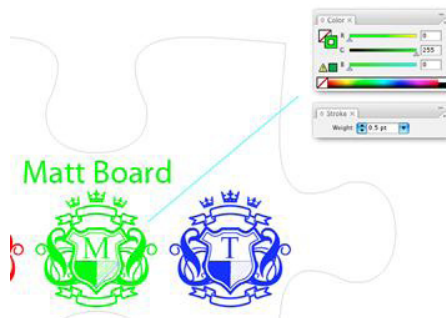
### VECTOR

The laser cutter cuts through and follows any path with a **line weight of .001 inches. Can't be done in Photoshop!**



### RASTER

The laser cutter etches without cutting through fills and paths with a **line weight over .005 inches. \*\*Etching can greatly increase job time.**



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## Submission Guidelines: Acceptable Materials

### OVERVIEW

The laser cutter can cut through the materials in the alphabetical list below.

We **will not** cut any material that we cannot guarantee to be safe! To be sure, try to only bring us materials with the labels still on them so we can verify what they are (especially Acrylic). Please don't be upset if we tell you we can't cut something, it is strictly a matter of safety!

We **will not** cut any foams, styrene, PVC, Polycarbonate, Kevlar, Vinyl or any related material; the fumes from this kind of cutting are extremely hazardous. We are unable to cut metal of any kind.

For inquiries on any special materials that you'd like to know if we are able to cut, email [amtlasercutter@gmail.com](mailto:amtlasercutter@gmail.com) (put "Attention to Manager" in the subject line).

### CURRENTLY ACCEPTED

Materials in **bold** cannot be cut. All materials for cutting must be 1/4" (6.35mm) or less unless otherwise stated.

Acrylic	Leather
<b>Anodized aluminum</b>	Maple
Basswood	<b>Marble</b>
Canvas	Masonite
Cardboard	Matte board
Cardstock	<b>MDF</b>
<b>Ceramics</b> (fired and unfired)	Melamine
Cherry wood	Museum board
Construction paper	Mylar
Cork	Natural Felt
Cotton (tight weave)	Oil board
Delrin	<b>Painted metal</b>
Denim	Pine
Ebony	Plywood (up to 3/8" (9.53mm))
Foam core	Rubber (up to 1/8" (3.175mm))
<b>Glass</b>	Wood Veneer (no paper backing)
Illustration board	
Khaki	

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## Submission Guidelines: Suggested Vendors:

Woods : Pine, Cherry, Maple, Plywood

#### Prince Lumber

406 West 15th Street  
New York, NY 10011  
(212) 777-1150

#### Rosenzweig Lumber

801 East 135th Street  
Bronx, NY 10454  
(718) 585-8050

Plastics : Acrylic and Delrin.

#### Canal Plastic

345 Canal Street  
New York, NY 10013  
(212) 925-1032

#### T&T Plastic Land

315 Church Street  
New York, NY 10013  
(212) 925-6376

Rubber : Plain black sheet

#### Canal Rubber

345 Canal Street  
New York, NY 10013  
(212) 925-1032

Art supply : Basswood, foam core, various papers, museum board, illustration board, matte board, cardboard, hardbord, rubber stamp

#### Utrecht

111 Fourth Avenue  
Btwn 11th and 12th  
Streets, New York, NY  
10003  
(212) 777-5353

#### New York Central

130 East 12th Street  
New York, NY 10003  
(212) 473-7705

#### Pearl Paint

308 Canal Street  
New York, NY 10013  
(212) 226-6966

Misc. : MDF and masonite

#### Home Depot

40 West 23rd Street  
New York, NY 10010  
(212) 929-9571

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## Submission Guidelines: File Setup & Submission (1 of 3)

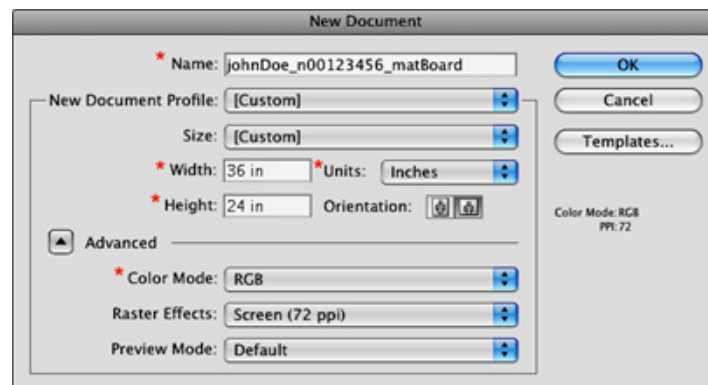
### OVERVIEW

Files can be created in Illustrator or Coreldraw. We accept files in either **eps or pdf format only**(all images should be traced into a vector format and follow our color scheme).

### STEP 1: CREATE A FILE

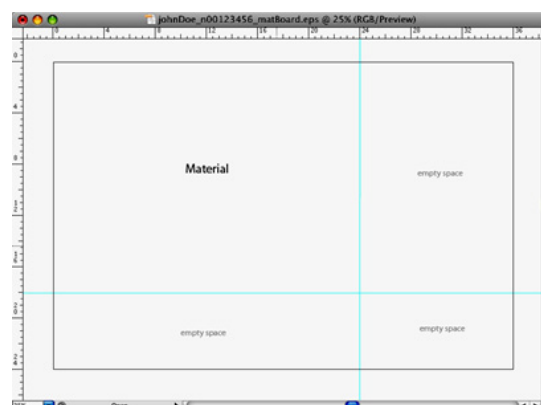
All files **must** use these parameters:

- 1) Units in inches
- 2) Workspace size of 36" x 24"
- 3) Color mode of RGB (very important)
- 4) Files must be named as follows: studentName\_n#\_material



### STEP 2: MANAGE WORKSPACE

In most cases you won't need to use the full workspace (36" x 24"). Use guide lines to indicate the bounds of your material.



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## Submission Guidelines: File Setup & Submission (2 of 3)

### STEP 3: COLORS & LAYERS

The laser cutter can cut and do a light, medium and heavy etch. Create individual layers for each type of cut or raster; each of these has a corresponding color **and** line weight. See the table below for details.

Only use the layers that are appropriate for your artwork. If you don't need a medium raster layer then don't put one in.

LAYER NAME	COLOR	LINE WEIGHT
Cut	R:0, G:0, B:0	= 0.001 in
Light Raster	R:255, G:0, B:0	> 0.005 in
Medium Raster	R:0, G:255, B:0	> 0.005 in
Heavy Raster	R:0, G:0, B:255	> 0.005 in

### STEP 4: KEEP IN MIND

**Continuous line work:** The cutter is accurate to 0.001 inches, so if your line does not meet in the drawing it will not be fully cut on the material.

**Overlapping lines:** If you have multiple overlapping lines they will all be cut and the edge quality will become less clean with each pass.

**Extra Artwork:** Delete any extra layers or artwork that is outside of the work area, as it might produce unexpected results or damage the machine.



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## Submission Guidelines: File Setup & Submission (3 of 3)

### STEP 5: OPTIMIZE JOB

Whenever possible designs should be placed as close to each other as possible and in the upper left of the file. This speeds up the time it takes for the machine to complete a job and minimizes material waste.

### STEP 6: PREPARE FONTS

Convert all your fonts to outlines. It is possible that we will not have a font you used and it is also possible that the .PDF or .EPS will not embed it correctly. So convert your fonts to outlines to preserve your design.

### STEP 7: SAVE & EXPORT

**.eps** or **.pdf** files only. It's that simple, if it is not one of these formats you will be e-mailed back a decline message.

### STEP 8: SUBMIT FILE & MATERIALS

Email the files and bring in the materials. If you are cutting multiple of the same design tell us a quantity for the file name and material. Use the following email format:

**Subject line :** **Studentname\_N#\_Material**  
(ex. JohnSmith\_N0011001\_Acrylic)

**Body:** **Filename(s) and Quantity**  
**Course Name and Professor Name**  
(ex. JohnSmith\_N0011001\_Acrylic QTY:2  
Advanced Design 3 Prof: Jerry Smith)

If your files are too large to be emailed, bring them with your material on a thumbdrive or computer.

If you are cutting a material that has been approved by the manager but is not in our library you must bring extra material for us to run tests for settings and create a material sample.

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## STEP 9: PICK UP

Pick up your job and extra material when you have been emailed.

**\*\*If for any reason you need to cancel a submitted job; please send an email so that all techs have a record of it, and come pick-up any materials you may have left with us.**

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## Disclaimers:

### TURN AROUND TIME: QUEUE

It is your responsibility to plan accordingly for your deadlines. We recommend at least a 48 hour turn around time, but that does not include mishaps(ours or yours) or heavy demand. We will not take the blame for missed deadlines.

### MATERIALS: DAMAGED

We will not replace any materials that have been damaged or otherwise produce unexpected results for any reason. Our services are free and the results can not be guaranteed. We recommend minimizing risks to more expensive materials by running full scale test on cheap materials, but it still is not a guarantee.

### JOB: CANCELLATION OR DELAY

We reserve the right to cancel or postpone any job that is questionable based on one or more of the of the following conditions: submitter is not a registered student/teacher in AMT, job is an inappropriate use of the machine(ex. full bed size woodblock prints, or large blocks of etched text that could be printed instead of etched...), the job seems to be a production run instead of a prototype for a critique(ie. we will not run 1000 business cards for you, one sheet should be enough to show proof of concept on a design.).

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