

Laser Cutter Training

Pre-training learning?

Raster v Vector

Vector

Only lines and curves with a thickness of .001" (.0254 mm) or less will be interpreted as vector objects. All other elements of the graphic being printed will be interpreted as raster objects.

Page 40 P 3 PLS User Guide

PLS User Guide – available on AMIL website (amil.skc.edu)

Lines can be too small
0.0001 didn't work during
'25 training event

Example cut

AMIL Keychain

Laser Operations

Vector cutting depth and raster engraving depth (or marking intensity if you are surface marking only)

controlled by

1. speed of processing,
2. laser power level and
3. number of pulses per inch (PPI)

Two methods to specify

1. materials database method which simplifies setup for beginners and casual users
2. manual method with allows much more control for advanced users.

Power Level & Speed

Artwork Positioning on Material

Venting – laser works by burning

Air Assist – Required for cutting, otherwise only if Air Assist Cone is on

*Figure 1 Laser focusing tool
against laser lens head*

Focusing the laser system by adjusting the Z axis

UCP

Setting speed and power

Materials Database

Manual?

Set button

Positioning art on material

Focus view

Middle of design visual middle vs physical middle

Log book

