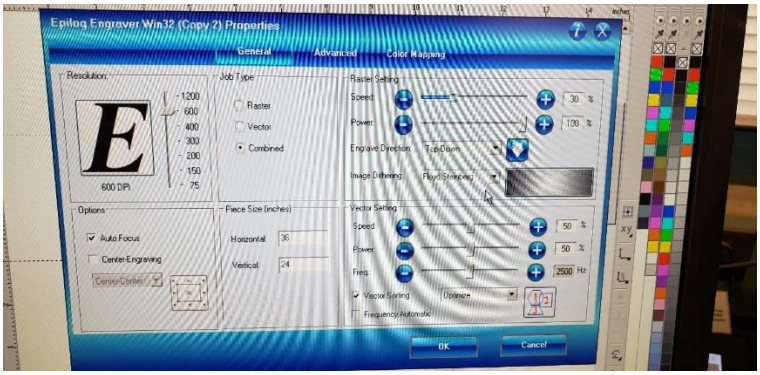
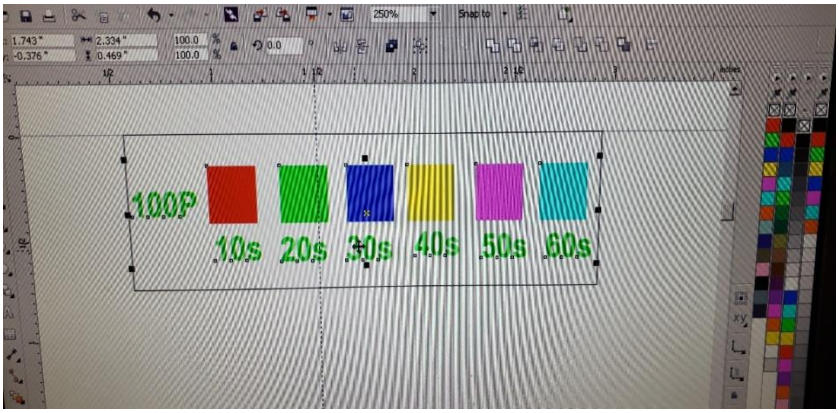
Epilog Laser CerMark settings test grid for metals

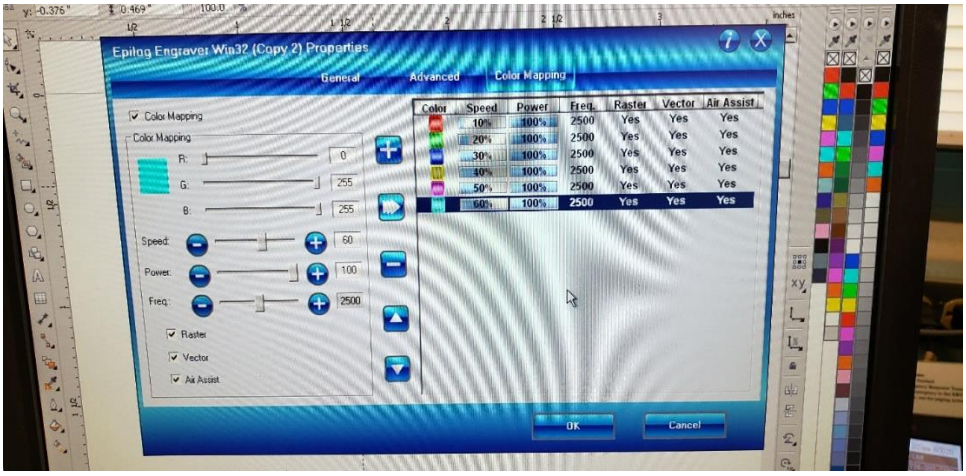
In addition to being used to determine best settings for CerMark laser bonding on to different material types this method can be used to help quickly find the settings for other items you want to mark or engrave.



DPI: We recommend using either 600 or 1200 dpi
Image Dithering: We recommend Floyd Steinberg

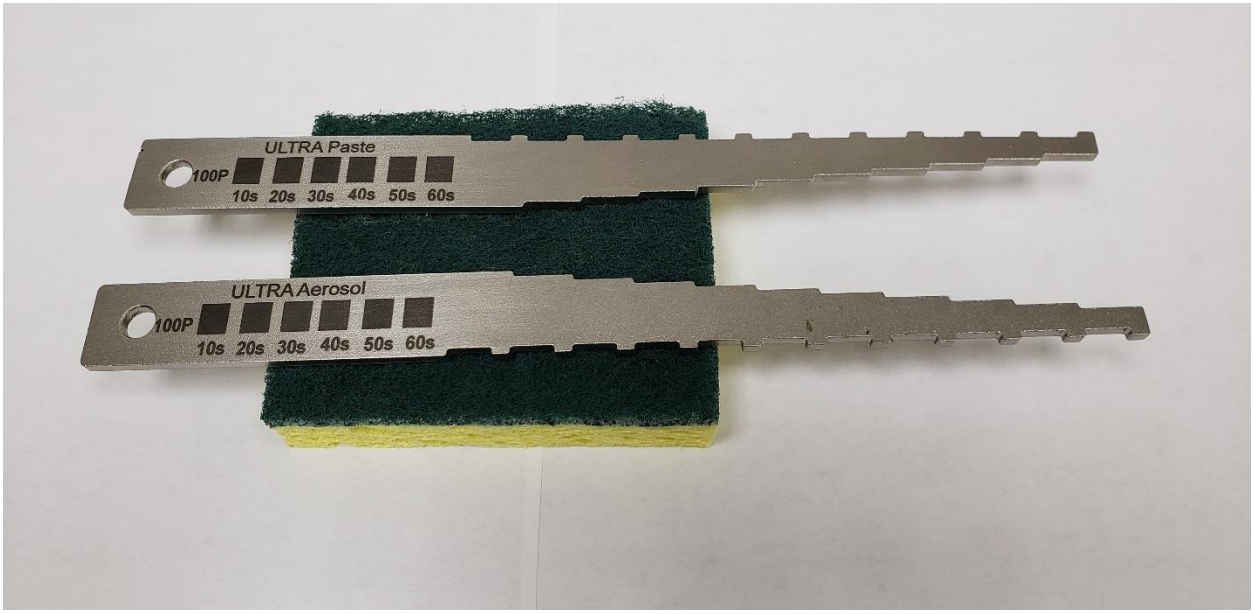


Create a layout similar to the one shown above. Be sure to use color mapping, it is worth the time required for setting up this one file to test many different power and speeds at once.
Laser systems between 30 – 60 watts we recommend 100% power.
Laser systems 75 watts and higher we recommend 80% or higher, although some laser systems could use less power.
Create steps in marking speeds of 5% or 10% increments.
Steps in speed of 10% are recommended when marking stainless, titanium and pewter. We recommend steps of 5% speed when marking aluminum, brass and copper.

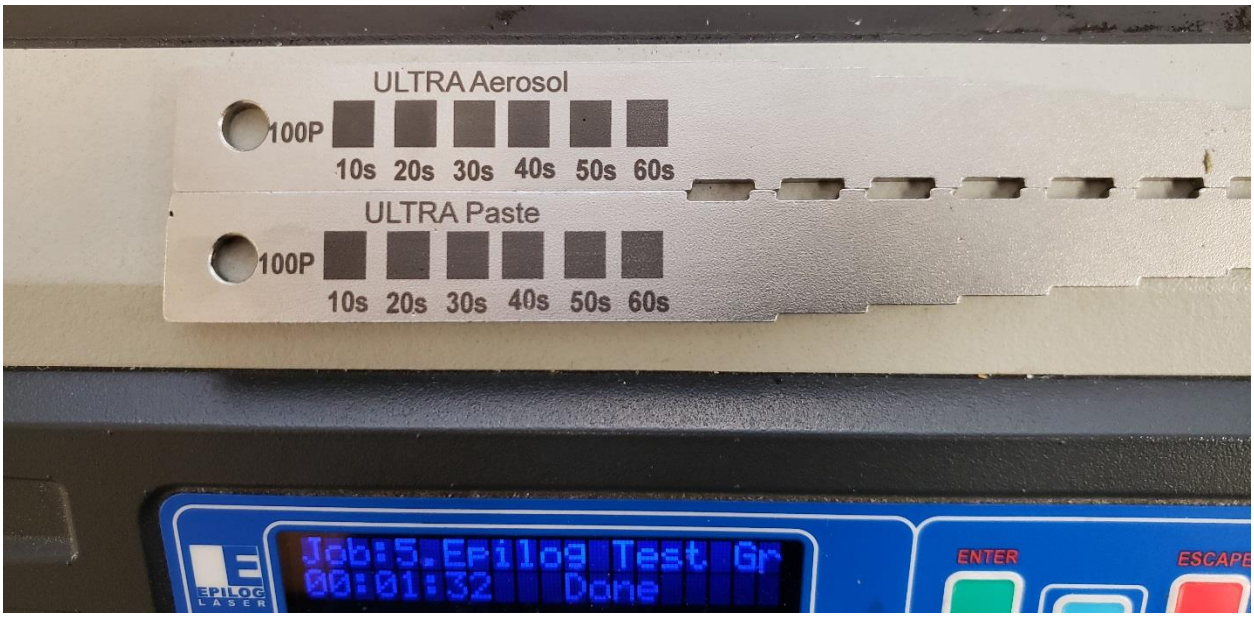


Set color mapping parameters.
Check the color mapping option.
Select the corresponding colors used in your test grid and set the proper speed and power settings.
The more variables you can create in one file the faster you will be able to find the most appropriate settings.
Higher wattage lasers can run multiple grids using less power for a wider range of settings options. We recommend the same steps in speed.

Place the part in the laser and mark.



Wash away the CerMark and scrub your test marks to verify durability.



Review the results and chose the settings you feel most comfortable with. This test will tell you how fast you can go without jeopardizing the durability of your laser mark.

Above is another test grid layout example.
Left side of the aluminum and right side of the stainless were scrubbed to verify durability.

REMEMBER, IF YOU'RE NOT TESTING, YOU'RE GUESSING!