

TECH TIP

Laser Engraving AlumaMark

What is AlumaMark?

AlumaMark is a form of Laser Engraveable Aluminum. It consists of 3 different layers. The first layer, which is the bottom layer, is made of regular Aluminum. The second/ middle layer is comprised of laser sensitive coating that makes up the engraved part of AlumaMark. The third/top layer is a clear coat to protect the AlumaMark sheet.

Using AlumaMark

Power and Speed Settings (all settings assume a DPI and PPI of at least 600)

Epilog Lasers

Model/Watts	Raster	DPI	Speed	Power	Auto Focus	Auto Focus Adjustment	AC	RC
TT 35 watts	Basic	600	30	10	On	+110 - +115	6	9
45 watt Mini	n/a	600	20	40	On	+90 - +100	n/a	n/a
24 EX 40 watt	n/a	n/a	30	25	On	+125	n/a	n/a

GCC Lasers

Model/Watts	Speed Settings	Power Settings
LaserPro 12.5 watt	75	35 (Satin Silver)
LaserPro 12.5 watt	75	38 (all other finishes)
LaserPro 35 watt	100	12
LaserPro 50 watt	100	30



Trotec Lasers

Model/Watts	Speed Settings	Power Settings	PPI/DPI	Auto Focus Adjustment
Speedy2 30 watt	15	15	n/a	n/a
Speedy2 45 watt	20	13	1000/1000	Slightly out – "High Quality Engraving" checked

Universal Lasers

Raster Engraving for Models: M-360, V-460, X-660, X2-Superspeed

Laser Wattage	Power	Speed	PPI	Laser Wattage	Power	Speed	PPI
10 watt	90	60	500	45 watt	27	80	500
25 watt	55	80	500	50 watt	27	80	500
30 watt	48	80	500	55 watt	15	80	500
35 watt	41	80	500	60 watt	15	80	500
40 watt	34	80	500				



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Vector Engraving for Models: M-360, V-460, X-660, X2-Superspeed

Laser Wattage	Power	Speed	PPI
10 watt	12	4.0	1000
25 watt	6	4.0	1000
30 watt	6	4.0	1000
35 watt	5	4.0	1000
40 watt	5	4.0	1000

Laser Wattage	Power	Speed	PPI
45 watt	4	4.0	1000
50 watt	4	4.0	1000
55 watt	3	4.0	1000
60 watt	3	4.0	1000

Raster Engraving for Models: M-300, V-400, X-600, X2-600 (older series machines)

Laser Wattage	Power	Speed	PPI
10 watt	92	80	500
25 watt	57	100	500
30 watt	50	100	500
35 watt	43	100	500
40 watt	36	100	500

Laser Wattage	Power	Speed	PPI
45 watt	29	100	500
50 watt	22	100	500
55 watt	17	100	500
60 watt	15	100	500

Vector Engraving for Models: M-300, V-400, X-600, X2-600 (older series machines)

Laser Wattage	Power	Speed	PPI
10 watt	12	4.0	1000
25 watt	6	4.0	1000
30 watt	6	4.0	1000
35 watt	5	4.0	1000
40 watt	5	4.0	1000

Laser Wattage	Power	Speed	PPI
45 watt	4	4.0	1000
50 watt	4	4.0	1000
55 watt	3	4.0	1000
60 watt	3	4.0	1000

Comments: (from Universal Laser Company)

Focusing on AlumaMark is very critical. If material deviates from focus then engraving quality may suffer. Image enhancement is recommended for detailed graphics and text.

VersaLaser Series

Please Note: for the Universal VersaLaser Series, templates for AlumaMark have been included with the current drivers. Manual settings will not be necessary.

Troubleshooting

If the image you have engraved is a dense black color, then you have successfully engraved your design onto AlumaMark. You have reached optimal results and maximized contrast, resolution, and durability performance.

Over Mark

Over marking results in a grayish mark with noticeable etching or relief - the marked area can look "flat" or matte especially when viewing at an angle. This is usually caused by an insufficient speed setting or a power setting that is too high.

Under Mark

Under marking results in a brownish or faint image. Under marking can also cause inconsistency in the image as power is delivered unevenly to the AlumaMark. To correct this, double check your power and speed settings to make sure they are within the correct setting listed above.



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