

LMM6046 Laser Settings



Laser Settings for LMM6046 Materials

The following table details recommended laser settings for LMM6046 materials on a range of common substrates. These settings are designed to help guide the user to the optimum parameters as quickly as possible. Please note that there will be variations in substrate finish and between different brands of laser. It may still be necessary to perform further refinement of settings to achieve the desired mark.

LMM6046 Suggested Laser Settings Used for CO₂ X-Y Laser

Substrate Material	Settings 45W laser		Settings 30W laser		Lens	DPI/PPI
	Power (W)	Speed (in/sec)	Power (W)	Speed (in/sec)		
Aluminum	45	3	30	2	2"	1000/1000
Anodized Aluminum	23	28	23	28	2"	1000/1000

Suggested Laser Settings Used for Beam Steered ND:YAG or Fiber Laser with a 100mm lens

Material	Power (W)	Speed (cm/sec)	Hatch Spacing "	CW Mode or Q-Switch Freq
Aluminum	10	15	.002	CW / ≥50KHz
Anodized Aluminum	9	25	.002	CW / ≥50KHz