LMM6038 Laser Settings

Laser Settings for LMM6038 Materials

The following table details recommended laser settings for LMM6038 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.

LMM6038 Suggested Laser Settings Used for CO_2 X-Y Laser						
Substrate Material	Settings 45W laser		Settings 30W laser		Lens	DPI/PPI
	Power (W)	Speed (in/sec)	Power (W)	Speed (in/sec)		
Stainless Steel - Bright Annealed	30	56	30	56	2”	1000/1000
Chrome plating	30	21	30	21	2"	1000/1000
Nickel plating	30	20	30	20	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
Stainless Steel - Bright Annealed	9	18	.002	CW / ≥50KHz
Chrome plating	10	6	.002	CW / ≥50KHz
Nickel plating	10	6	.002	CW / ≥50KHz