

Laser Engraving Techniques

25 Watt Gantry CO Lasers:

Power	Use a power setting of 10% to 20%
Speed	Engrave at up to 100% speed, using slower speeds for finer detail.
Resolution Profiling	Use DPI and PPI/Rate settings of 500. Reduce speed to 7% and increase PPI/Rate to 750 to profile (cut) the material. The cleanest edge is achieved by cutting almost through the material then weeding the part from the matrix.

Galvo CO and nd-YAG Lasers:

Power	Engrave at very low power.
Speed	1550mm/sec.
Q-Switch	Use the maximum Q-Switch setting or CW if available.
Profiling	Reduce speed and increase power.
Black/Gold	Precise power control is necessary when nd-YAG marking the Black/Gold to avoid damaging the metal backing.

*Laser engravers vary in performance. Use these recommendations as a starting point and make adjustments as necessary.
For additional recommendations, visit www.rowmark.com.

LASERmag does not meet the definition of “magnetic material” per 173.1020 or IATA905. Gauss tests on **LASERmag**’s magnetic substrate measured at distances no greater than 84 inches do not exceed 0.0001 gauss. **LASERmag**’s surface durability is about twelve times greater than that of a conventional microsurfaced engraving plastic. On an RCA Taber ABrader CS17 set at 500 gm, there was no wear through to the substrate after a minimum of 70 cycles.