



COMPARING SPECIFICATION

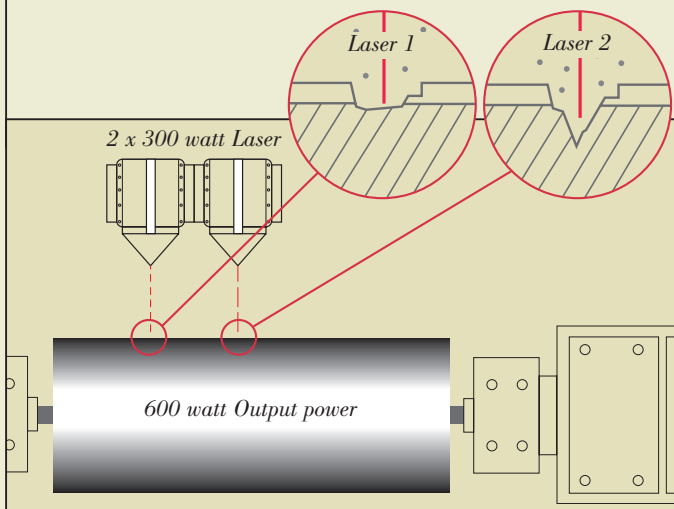
SINGLE LASER VERSUS MULTIPLE LASER ▶▶▶▶

Laser power and processing speed are directly related to the production output from the direct engraving system. Laser reliability and stability are essential to minimise maintenance and downtime.

HIGH LASER POWER + FAST PROCESSING SPEED = MAXIMUM PRODUCTION OUTPUT

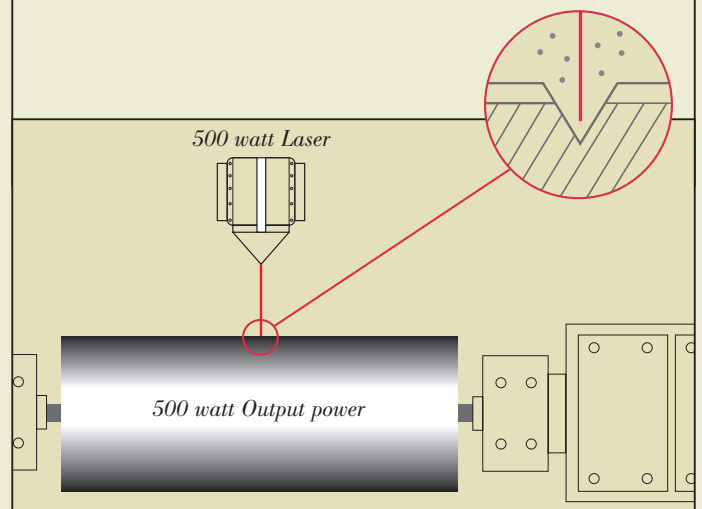
★★★ MULTIPLE LOW POWER SYSTEM ★★★

- 1) Restriction on graphic resolution because laser mechanics and image processing speed, can not cope with speed of data transfer – typical 1270 DPI on many designs;
- 2) Increasing the number of lasers, gives proportional increase in chance of mis-alignment of the multiple laser beams;
- 3) Beam in-stability is more frequent, leading to higher downtime and maintenance time;
- 4) SKIP can only happen in areas > 50 mm.

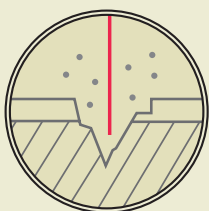


★★★ SINGLE HIGH POWER LASER SYSTEM ★★★

- 1) Fastest possible data transfer, to optimise graphic resolution and production speed – 3600 DPI possible for MOST images, all size designs;
- 2) Simple and reliable beam alignment;
- 3) Beam stability is consistent;
- 4) Rapid traverse SKIP happens automatically for full engraved areas >1mm.

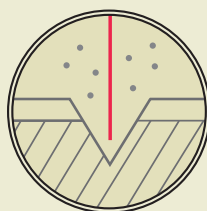


★★★ 2 LASER SYSTEM DOES NOT ALWAYS EQUAL TWICE THE SPEED ★★★



Multiple lasers:

- Less stable beam alignment
- Higher potential downtime
- Higher potential maintenance
- Lower SKIPPING rate



Single laser:

- Stable beam alignment
- Reliable engraving
- Low maintenance
- Maximum SKIPPING rate

MULTIPLE LASER SYSTEM

- = less stable beam alignment
- = less reliable engraving
- = higher maintenance
- = lower SKIPPING potential

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