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## Application Newsletter



### Application Newsletter – Laser Marking with the FiberTower™



Laser marking can be accomplished with a variety of materials, which means that you are limited by only your ideas. Among the more popular applications for laser marking are corporate gifts, plaques and awards, wedding, retirement and anniversary presents, as well as a wide variety of solutions for the medical, tool and electronics industries and other industrial applications.

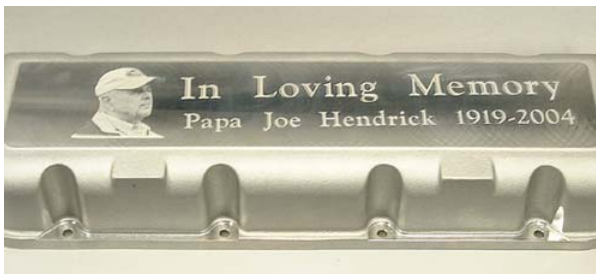
Laser marking provides an ideal permanent marking solution. Direct part marking eliminates the need for inks, dyes, glues, chemicals, adhesive labels and other high maintenance and or inflexible marking methods.

From laser marking photographs or corporate logos onto personal items for that one of a kind corporate gift, to marking, etching, or engraving text onto golf clubs or plaques, [Laser Photonics' FiberTower™ fiber laser marking machines](#) are the perfect choice.



#### Application Details:

The red anodized aluminum key chain was marked with a 10 watt q-switched ytterbium [fiber laser](#). All samples marked extremely well. The cycle time for marking the words 'Laser Photonics' was 2.75 seconds. The parts were marked using 60% power. A 160 mm focal length lens was used, creating a marking field of 4 inches.



#### Application Details:

This aluminum part was marked using a 20Watt [Fiber Laser Marking System](#) using a 160 mm lens. Since the part was so large, in order to put a mark across the whole part the marking was broken into 4 sections. The part was then moved by hand from section to section. The picture of "Papa Joe Hendrick" made up the first section and the text was divided in to 3

sections. The picture took 1 minute and 59 seconds. The 1st section of text took 56 seconds, the 2nd section took 58 seconds and the 3rd section took 51 seconds.

### [The FiberTower™ Series](#)



The Fiber Tower™ Series is the new generation of Fiber Laser Material Processing Systems for Direct Parts Marking, [UID](#)

**Marking** (Unique Identifier), and Deep Engraving. It is the most advanced, compact, industrial grade, mid size, Fiber **Laser Engraving** Machine available on the market. Fiber Tower™ series employs the new generation of solid state Ytterbium fiber laser systems of near infrared spectral range (1060-1080nm) with a unique combination of high peak power, ideal beam quality, fiber delivery and highest electro-optical wall-plug efficiency. These **laser machines** possess a reliability that is unmatched by any other kind of solid state or gas laser systems. Wide selectivity of operating wavelengths, ultra-low amplitude noise, high stability and ultra-long pump diode lifetime complete an impressive list of advantages of these modern fiber laser systems.



Developing **laser marking**, **laser cutting** and **laser engraving** systems for precision material processing industries, Laser Photonics is leading the way with innovative fiber laser and CO2 laser systems. Our laser machines are used by manufacturers in the automotive, aerospace, industrial, defense, electronic and medical industries around the world. For more info visit [www.laserphotonics.com](http://www.laserphotonics.com) or call 407-829-2613.

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