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Q-Switched Fiber Lasers are ideal for marking on stainless steel and other metals, as no LMM is needed. For this application, Laser Photonics applications engineers used the <u>FiberTower XP</u> <u>Compact system</u> with a 20 Watt Q-Switched Fiber Laser equipped with a 160mm F-theta Lens. The stainless steel sample parts were marked at a depth of approximately .001, using the process of surface etching. The mark is etched by vaporizing the surface of the material at very high speeds, providing very minimal damage to the part. This is usually done when a quick mark is needed and cycle time is an issue. A surface etch gives a high contrasting mark and is ideal for marking on coatings without penetrating through, such as chrome, nickel, etc. Several marks were made by our engineers. The first mark was made in one pass to show optimum cycle time of 12.5 seconds, which is 5 inches per second. The goal of the application was to process the best quality samples while maintaining an acceptable cycle time.

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Try Before You Buy! Did you know Laser Photonics will process your samples according to your specifications for FREE? Simply <u>send us several samples</u> of your product with a complete description of your marking or cutting requirements. Your processed parts, together with a detailed applications report and equipment recommendations will be returned to you at no charge.

Laser Photonics, is the industry leader in developing high-tech Fiber and CO2 laser marking, cutting and engraving systems for a variety of industries such as; aerospace, automotive, medical, solar semiconductor etc. We exceed in manufacturing high quality, performance driven turnkey solutions for these and many other industries. For more information or to contact Laser Photonics, please call 407-829-2613 or visit us on-line at www.LaserPhotonics.com.



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