

A flexible, cost-effective approach to laser marking for small to medium batch sizes.

Challenge

Manufacturers across several industries need a simple and fast method to mark small to medium sized batches of products and/or components. This is particularly the case in industries such as medical devices that are characterized by frequent variations and options. However, the hardware/software combinations that provide the requisite operational simplicity, speed, and mark quality are usually only available in larger marking platforms that are not cost-effective for smaller product volumes.

Solution

The new ExactMark 210 is a compact, easy to use, and economical solution to this common marking challenge. Because it is available with a choice of IR (1064 nm), green (532 nm) or UV (355 nm) lasers, the ExactMark 210 can be configured to produce sharp, high-contrast marks on nearly any material. It includes up to 2 axes of motion: Z-axis focusing and a rotary or linear motion option, which makes it ideal for marking both flat and shaped surfaces. The marking field size can be configured for single parts or trays, e.g., JEDEC.

Control of all the various components, laser, optional TTL vision system, part handling mechanics, etc., is integrated into a simple user-friendly graphic user interface. Operating under the company's common laser machine software platform called Laser Framework, complete recipes for new marking tasks are easily created, stored, and executed using an intuitive object-driven flow chart.

Features such as an on-demand exhaust system reduce the system's carbon footprint and simplify integration into any production line setting.

Benefit

Small batches of devices and parts now can be marked with minimum operator bandwidth using a compact and cost-effective system. This minimizes the overall cost per marked surface. Just as important, the use of superior performance lasers and hardware with proven reliability delivers marks with the highest quality and visibility on any material.

Application Field

Marking diverse small batches of products, including medical devices and instruments, electronic components, machine tools, and consumer products.



Figure 1. A choice of three different laser wavelengths enables ExactMark 210 to be optimized for virtually any type of material.



Figure 2. A small footprint and object-driven touchscreen control maximize the value and utility of the ExactMark 210.

Contact

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