FAYb laser markers: LP-Z series

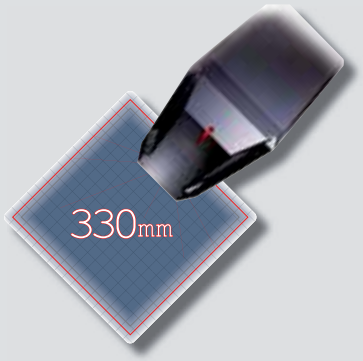
The LP-Z is designed to mark complex 3D surfaces by adjusting the laser beam's focal point, guaranteeing stable energy density and hence marking quality. This technology likewise contributes to superior marking on large 2D surfaces of up to 330 x 330mm² where the center is much closer to the beam output than the corners.

The LP-Z series comes equipped with an encoder interface to mark moving objects, e.g. objects on an assembly line. Standard functions include code generation (Data Matrix, various bar codes, etc.), counters, expiration date and lot number generation.

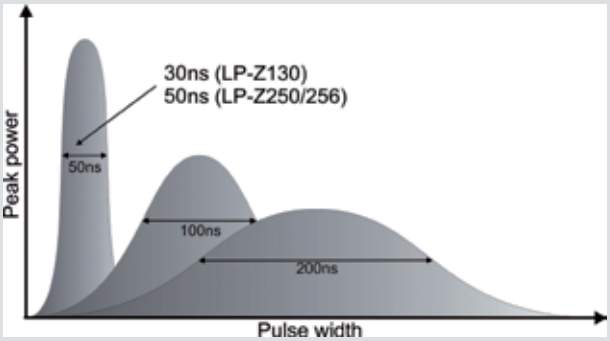
3D control

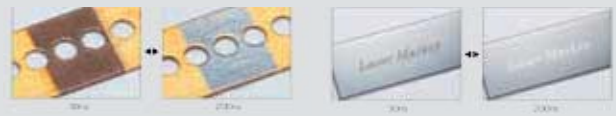
3D control within a range of 50mm ±25mm enables stable, high quality marking on stepped, curved, sloped, even spherical surfaces, etc., dramatically reducing setup, installation and design costs.

Large marking field



Large marking fields of up to 330mm x 330mm open up even more markets to laser marking and improve productivity. The technology for 3D control likewise contributes to superior marking on large 2D surfaces where the center is much closer to the beam output than the corners.





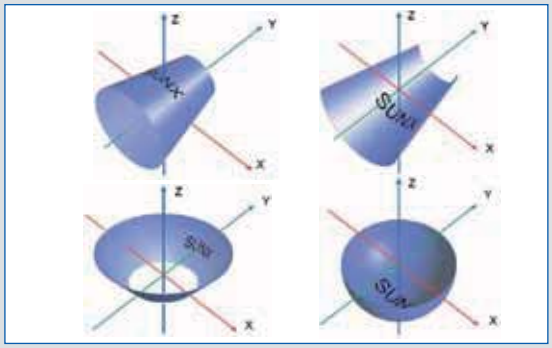
High performance

By selecting the pulse width and combining it with an average output power of up to 25W, you can set the optimal conditions to mark the material at hand. Short pulses yield the best results for coloring resin and engraving. Lengthy pulses work better for black, shallow marking and to remove coating. Applications requiring high energy, e.g. deep engraving and black marking on metal, are easily achieved. A high power output shortens marking time, thus improving production efficiency.

Automatic height adjustment

A signal via RS232C or digital I/Os instructs the LP-Z Laser Marker to adjust its focal point for a different product, automating marking for production line switch-overs.

Predefined forms



The LP-Z Laser Marker allows you to select from a variety of predefined forms. Combining forms is also possible, and as long as two sides are within 45° of each other, they can be marked simultaneously. Such processes formerly required either 2 steps or 2 laser markers!