

Laser engraving workstation with Cartesian XY coordinate travel.

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Abstract: This topic aims to address the need for an automatic laser engraving station with flexible movement in two-dimensional space (XY coordinates). The objective of the research is to design and implement a control system for a laser engraving machine, combining the mathematical theory of Cartesian coordinates with modern laser technology. Through the experimental process, the topic hopes to contribute an effective solution in the manufacturing field, while expanding knowledge about the application of laser engineering in industries requiring high precision.

Keywords: laser engraving station, Cartesian XY coordinates, control system