AN X-Y TABLE OF MICRON ACCURACY CONTROLLED BY A MICROCOMPUTER

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The design and construction of an X-Y table having a positional accuracy of $\pm 5\mu m$ are described.

The X-Y table consists of two precision translators joined together at right angles to each other. The translators are driven by two 400 steps/rev. stepper motors controlled by an eight bit microcomputer (KIM 1 using 650Z).

A description of the interfacing of the computer to the motors and the development of driving software to obtain the required pattern of traverse are given.

An application of the table for thick film resistor trimming using a Neodymium YAG (Yttrium Aluminium Garnet) laser is outlined.