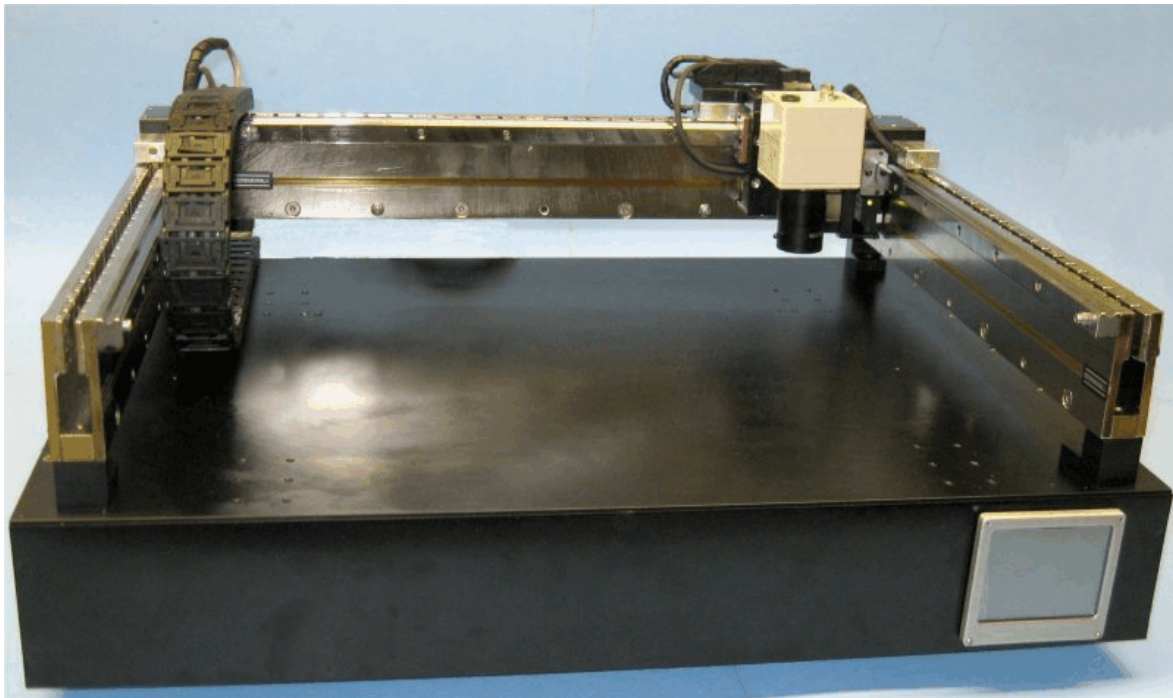


12 x 12 inch (300 mm x 300 mm) X-Y Table

PASS THRU DESIGN



I. System Specifications

1. Travel – The movement in both X and Y axes is a minimum of 12 inches working distance, with approximately 14" mechanical limits in each axis.
2. Accuracy – The digital readout resolution (based upon the linear encoders) will be 1 micron (a ten thousandth of an inch is 3.93 microns). The repeatable travel accuracy in each axis, which includes mechanical effects, shall be .001" or better.
[Note: The accuracy of the system, including the accuracy of the readouts and the actual travel accuracy requires a stabilized environment, especially temperature and vibration.]
3. Mechanical – Overall dimensions 24" wide x 18" deep x 11" high. Table base made from K100 6061 Aluminum cast plate (flatness to +- .002). Linear motors used for each axis. Full electronic controller with QVGA touch screen and power

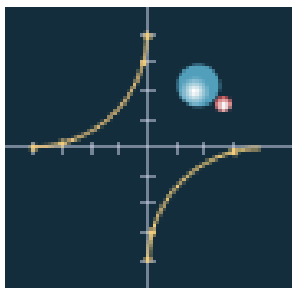
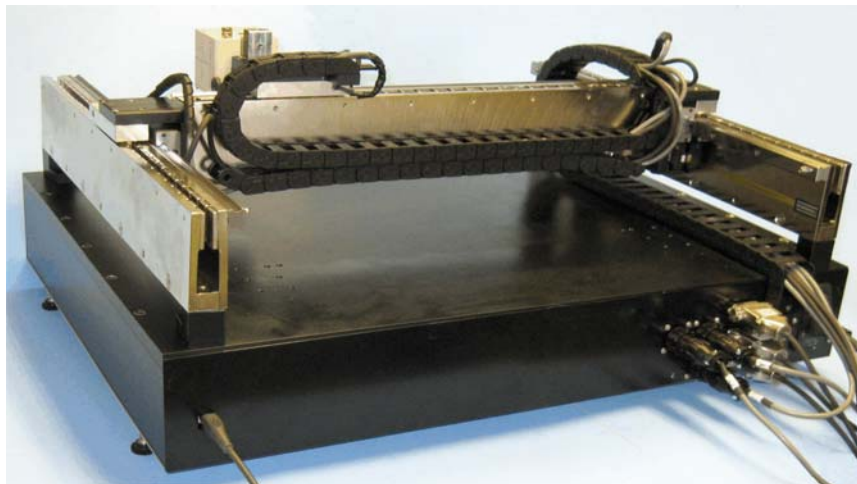
supply are packaged within the X-Y table bottom. USB to PC cable 6' and power cord is 6'. Weight: approx. 35 lbs. 110/120 VAC.

II. Set up and Operation

X-Y table and controller is designed for set-up and operation “out of the box”. User just has to install software from CD onto PC with USB 2.0 port. The table must rest on a suitable surface/stand. USB cable, separate joystick, included. Once the PC software is loaded, a “calibrating and test” routine can be run from the PC software to verify basic X-Y table operation and to conduct metrology test. Typical operation expected to be from joystick, but system can be run from PC GUI software.

Built-in Aim Controls G5 electronic Controller and three Aim Controls’ linear motor drivers. USB 2.0 communications to PC software for digital readout of position. Movement of X-Y table can be done through PC software and/or separate joystick controller with spring return to center. The joystick movement away from center will accelerate speed of motion and movement will not stop until joystick returns to center. Includes color VGA touch screen display of positions and menu for command operation.

System Software – PC GUI software will include a digital readout of X-Y position, plus: Home set command, Move to [position] command, move at [rate] command, Stop command, Return to home command. Operating manual included.



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