

IntelLiDrives, Inc. releases XY Table with Air bearings for precision manufacturing



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IntelLiDrives, Inc. has released a new XY table <http://www.intelldrives.com/systems-c-18.html> utilizing planar linear motor technology in a single plane direct drive positioning stage. This innovative design offers the unique capability to operate two axes of motion in one plane with one motor.

Two component system consists of passive, magnet-free stationary platen, constructed of lightweight composite materials, and dual axes moving forcer, gliding on the air bearings over special "waffle-like" surface called platen. Planar forcer contains two or four linear motor modules oriented 90 degrees to each other. As linear motor modules respond to varying currents, forcer moves across the platen to produce continuous linear motion. Forcers can be controlled in translation and rotation modes to perform XY and theta (couple degrees) motions.

Stage is built with field replaceable cable track, enclosing electrical cable and air supply, and a panel, containing user electrical and air connectors for a "plug-and-play" installation in less than 5 minutes.

Scalable forcer design provides forces from 25N to 500N, motion repeatability 2 microns, travel length up 1.5 m x 1 m.

IntelliDrives, Inc. Cartesian system is capable of velocities 2 m/sec, compatible with standard micro stepping indexer/drivers and offer a cost effective, compact envelope planar linear positioning system.

This system is designed for high accuracy, repeatability and speed, simplifying design by eliminating problem associated with stackable XY tables, where one axis is being carried by another. As a result positioning stage with the Planar XY table offers greater reliability and performance through design simplification and elimination of wear-prone components.

Planar XY table system can operate in any orientation (side wall, upside-down) with multiple forcers installed and operated independently on a single platen for high throughput and flexibility in many robotic automation applications

Typical applications include pick and place automation, electromechanical assembly, material transfer systems, laser cutting, testing, dispensing and many others.

About the company:

IntelliDrives, Inc. manufactures linear actuators, XY tables and rotary tables for the industry, government, science and research institutions around the world. Our precision rotary actuators, XY stages and linear actuators are used in the applications in medical devices, life sciences, semiconductor and electronic assembly manufacturing, data storage, laser processing, military/aerospace, photonics, automotive and test assembly, research and development and other industries requiring high precision and throughput motion control solutions.

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